

1 Introduction

1. This Study is In two parts. Part I discusses the main questions confineding future regional pelicity which have so far emerged from the Council's work. Part II draws together the evalibility information on the economic structure of the region and exemites the trends end prospects. The two parts form on integral whole: the discussion of policy in Part I is derive from and is, as free expossible, substantisted by the detailed description and native in Part II.

2. The preparation of this Study has taken longer and proved more difficult than we had foresten. Perhaps our most serious immediate difficulty has been leck of information. Until East Anglia was designated e separete economic planning region in 1866 (ess Figure 1), simost ell the information required for effective regional planning was comciled as part of the statistics for areas with very different peoprephical poverage from the present Fast Apolla Planning Region, With the limited resources at our disposel, the essembly of the hasin facts about the region has been a formidable underteking. One of the mein feetures of Part 11 is that it draws this material together for the first time; one of the most important future tesks for the Council will be to ensure that this body of information is extended and kept up to data. An edequete enelysis of the fects of the situation is en essential foundation for effective policy recom-3. We have been very conscious that the estting up of regional economic planning councils, and the whole negent emphasis on regional aconomic policy consessor a major innovation in government policy. An innovation of this kind poess considerable problems. The Plenning Council itself has to form a view of how it can best fulfil the tasks which it has been set, it has to try to establish effective working relationships with the major local authorities and other institutions in the region; it siso has to work with the departments of the centrel Government, many of which have hitherto had no organisation for the consideration of the problems of East Angile as a separate region, and few of which have found it sery to make staff systleble for the work which these innovations in molenal planning require.

4. This Study is the Council's first report. It is

essorially, pritiminery in chreater. We are older that if we were prepared to device more times and resources to it, it could be substantially improved. But we are also confidence that it would be wrong to delay publication eny further. There are a facilities of the confidence that it would be wrong to delay publication eny further. There are a facilities of the confidence of the control properties. Industrial location policy, and invastment in transport end future of the control properties. Industrial location policy, and invastment in transport end proprised which policy are considered as motive public devices on the pretent of the region's thoruse and which locate to the Gounding layer is last.

2 The Council's Approach

8. The functions of the Planning Council as to state in the development of planning in the region in order for make the best use of resources, and obtains on the implementation of regional position, in addition, the Council is required to advise to the council of comments on the regional position, and offices, the Council is required to advise the council of comments on the regional position of the council o

possible what the Council is trying to do-both in

this Study and in its future work. 7. The Council has no executive powers and can act only in an advisory capacity. At the national level, the effect of the new regional economic planning machinery should be to ensure that regional considerations are taken leto account more explicitly then in the past. But the way in which proposals coming from the regions can be integrated into national aconomic policy poses difficult and complex problems for the Government. At the local authority level there are wellestabilished institutions for the formulation and implementation of physical planning decisions. and very many of the detailed lasues of planning policy must clearly be decided by the existing authorities. The Council is not required to harmens its proposels and investigations to the demands of dev-to-dev administration; this embies it to toke an independent line in supposting new solutions to old problems, to present alternative solutions to perticular problems, and to investigate methods of evaluating such elternatives.

8. The new mechinery for regional planeting recognises the need for a livel of planeting which looks at an area issigner than say single local authority but a good deal remains than the country as a whole. It also reflects the need for physical planeting decisions to be much more closely related to the requirements of conceils policy in its widest ensors. Hitheron, questions of physical planeting have too frequently been decided with insufficient regard to that's concern implications.

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Without interfering with the existing links between local surborities and the central Government, the regional countils have an important Intermediary advisory part to play between the different levels of planning.

3. The first part of our work has been to establish

as compositantive a picture as we can of the concent attractor of the region and the way in which this arecover is changing. This is the base concern attractor of the region and the picture of the region and the region picture. The need for an inequipative appointer and an arrange of the region picture and region picture and region picture. The region picture and region picture and region picture and region picture and region picture. In application, and other forces and picture and other forces are region picture and region and have forced picture.

securences for the future 10. East Anglia cennot be looked at in isolation from other regions, it needs to be considered as a dense social and economic network which overlege administrative boundaries and which has only relatively less close interconnections with other regions. Equally, what happens in one part of the region has inevitable consequences for what happens in other parts. The large increases in population in Ipswich and Paterborough, for example, will effect the pettern of growth and change in a much wider eree. It is not possible to assess the interaction of davelopments simply by plein commonsense. The lasues involved are too complicated; and it is necessary not just to enumerate the different factors at work, but to measure their interection and quentitative importance. The development of more applicated methods of enalysis—such as regional accounting and input-output analysis, locational analysis and cost/benefit techniques-will help considerably in the longer term.

 But the lock of the information and proper ensysted techniques cannot be allowed to inhibit a prectical approach to regional planning problems.
 There is an urgent need for ection. At this stage. regional aconomic planning must involve a good deal of Tearning by doing'. The formulation of prectical recommendations for policy end the development of better methods of analysis need

to proceed in parellel. 12, it may be thought that the development of more systematic techniques of regional engines might expose the firms end individuals of the region to a "tyrenny of planning". We do not believe

that this is so. On the contrary, it is often difficult for the individual businessmen or private citizen to risolde on his own best course of ection unless

he has a clearer view than at present of the future pattern of development in which he is likely to be operating. One of the most useful and important teeks for any regional aconomic council is to set

out, in the light of the best ensivele it can develop. the pettern of developments which form the fremework for individual decisions. 13. This Study is our first published contribution

to the formulation of regional economic policies for East Anglia. We see here presenting for public discussion our preliminary survey of some of the melor problems

3 Summary of the Problems

14. The list Anglie Economic Planning Region comprises the five administrative counties of Morfels, Huntingson and Peterberough. Climbridgeabire and the list of Ely, West Surfels and Ess Suffels, and the these county borrughs of Great Yemouth, Norwich and Jaravich. The region covers 4,900 squere miles, with compact dismansions not exceeding 90 miles from east to west and 70 miles from north to south.

15. Compared with the other English economic ntenning segions. East Anglie has a small population, which is now over 1.6 million people living at a relatively low average density of 0-6 nersons to the acre. Since 1961 the region has experienced the fastest rate of population growth of any region in the country, partly through natural increase and partly through voluntary migration reinforced in recent years by the planned expension of ten oversoill schemes. The population is expected to increase at an accelerating rate un to 1981-heaven 1966 and 1981 official forecasts show a 27 per cent increase. This is the highest rate of population increase expected in any region and comperes with the increase forecast for England and Woles of under 11 per cent. Given the erroll base at present, the expension will have very marked effects in certain ereas. The greatest port of the increase will result from the melor schemes of planned migration to loswich and

18. If the region's population is just over two million at 1881 as expected, then on peacet unified beth-rate and mortality seamplican stem of the control o

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Peterborough, and from the smaller town expan-

sion schemes which are expected to be sub-

stantially completed by 1981 or before.

17. In total, then, East Anglis is aiready fecting a population increase of about three-questrain in the next thiny-five years, an increase which is large in absolute terms and its proportionataly by far the largest to be shoutded by any region.
18. This way large increase in population is to knowned on a region which is, in a number of

critical respects, not wall prepared to receive it.
The principal obstacles to receiving a population
increase of this scale set;
a the present system of communications is inadvantate system for the present scale of popu-

lation and economic activity: the reli network is being reduced by closures; the road communications ere elow and congested, and towns away from the A1 have only

tortuous links with any other region except London; b the provision of housing and aducational and hosith convices in in a number of sesantial

health services in in a number of sesantial saspects below the netional leval; it is doubtful whether public investment proexempts for transport, education and health

will be sufficient to make up existing deficiencies, let alone to meet the demends of e proportional increase in population much isrger than the national average, of the present distribution of settlements still

strongly reflects the historical influence of e predominantly agricultural pattern of economic activity: the widely acattered distriburion of population pases serious problems for the adequate provision of modern facilities. avan for the existing population, still more for the accommodation of rapid expension; e East Anglia will have a limited industrial base for many vacra, Furthermore, large parts of the region do not offer good prospects of supporting regid growth in aconomic activity. There are very few large firms and a menioted range of skills and training facilities. Employment in agriculture is proportionstely five times as high as the national average but is running down repidly, it is difficult to see how, without major changes in government

polloy, sufficient employment will be

generated within the region to provide jobs

for the projected increase in population; / samed incomes from employment ere lower in East Anglie then in env other English region, lower then Weles, and only fractionally above Scotland. They ere about 8 per cent below the everage for Great Britain, and there ers even more marked differentials of up to 12 per cent between certain counties of the region and the netional everens. The detailed acelysis we have made in Part II shows cuits clearly that, at most, a third of the total difference in employment incomes is ettribuseble to e different economic structure in East Anolla, with its higher than everage employment in egriculture. The largest part of the difference is due to lower than everage sernings within comparable industrial groups. This disparity suppease that the demand for lebour has not been growing fast enough to

provide sufficient employment at national

earnings levels, and implies a relatively lowstandard of Illvia, To bring swerps estiminaup to something nearer the national swerigalup to something nearer the national swerigalwith requirements and conrequired to cestal jobs for the projected increase of possibilities; and important conpositions of the most adjustment complex. The preservation of the role of springlish to not the most efficient and important composerate of our residensia approachus to complex.

the agebushed Industry of East Anglia Is not of the most efficient and important components of our merican agricultural components of our merican agricultural components of our merican agricultural in the economy of East Anglia, while meeting the claims of other than do of desirable benefit and use. These is also the node to predict the component, involves very difficult questions about a facility of the component in the compon

18. We now attempt to quentify in employment terms the additional economic activity required to support the natural increase in population, to sustain the region's contribution to the London overspill programme, to offset the rundown in employment essociated with greater productivity in egriculture, and to solve the problems of underemployment and low everage income in the region. We try to assess the prospects of indigenous industrial growth and the chances of attracting extre industriel investment. Our judgments have been made in a period of great economic uncartainty, but we have essumed that conditions will be established that will allow austained netional economic growth. 20. We have attempted a detailed analysis* of

the probable trends in the supply end demend for lebour in the region as a whole up to 1971, taking into ecount the trends in different industries, the decline in enricultural employment, and the growth in local services associated with the increase in population. The main points which emerge ere: a Given the possible mergin of error in both the

supply and demand projections, it is not serv to draw any very clear-out conclusions. Nevertheless, the estimetra suggest that, over the region as a whole, the expected increase in the numbers of men seeking employment will probably be roughly in line with the rete at which new job opportunities ere likely to he forthcoming. This would imply for the region as a whole, no great change in the everage pressure of demand for male lebour. A For women the employment respects easy ruther different. Our information supposes than the expansion in job opportunities for woman may well be rether fester then the incresse in the number of women seeking work, Given our present essumptions about activity rates. this would meen some shortage of women workers. 21. While not disreperding these regional conclusions, it has become obvious to us that neither geographically nor occupationally will lebour

demand elwevs coincide with lebour superiy. Further celculations and investigations have *For detailed calculations see Pert II, Chapter S, paragraphs 381-383, rited image digitised by the University of Southempton Library Digitisation Unit

shown that between 10,000 and 13,000 new menufecturing jobs for men will have to be brought into the expending towns between 1966 and 1971 to aunniement lebour demend from local industry. and a further number of menufecturing lobs (not yet quantified) to take up labour reserves in areas where there is unemployment and under-employ-

ment. 22. Over the longer period from 1966-81 we have settmeted that the increase in supply of male labour le likely to be between 86,000 and 114,000, sey about 100,000 men. As a result of the fell and subsequent rise in the birth-rate in the 1950s and early 1960s, e much more than proportionate there of that additional 100,000 will occur after 1971 and more perticularly in the later years of that decade, with an equivelent requirement for inhe. We thought it unwise to extempt to forecast labour demend for 1971-81, but it is obvious that for that period close ettention will have to be paid to the problems involved in finding jobs for such lerge numbers of men, of which the greater part (eporoximetely three-quarters) will be in the New end expending towns.

23. The arithmetic in the preceding paragraphs does not take eccount of the need to reise East Anglen earned incomes up to the netional level. If income per head netionally were to rise by 3 per card per arroum, for East Anglian incomes to catch up in twenty to twenty-five years they would have to grow at an annual rate of 3-4 per centurer 13 per cent faster on average-civer the some period. The disparity has been nerrowing in recent yeers; but, insofer as this has been due to the ehift of workers from lower-paid agriculturel employment to other more highly peld occupations. the ecope for further nerrowing becomes progreenvely reduced se the ebsolute numbers leaving ecricultural employment fall. It might therefore be unwise to suppose that the disparity will be eliminated by natural economic forces in any reseptable length of time. In general, the present disperties in income can only be eliminated by further increases in output per worker through higher investment end technical progress, which will permit the payment of higher earnings. 24. The scettered settlement pattern, determined

originally by the egricultural structure of the region.

PART 1

conductive to regist industrial growth and leads to locational problems, unemployment and underenciolyment in rural greats. This orthernor passincertification of the register is stated to provide a continuation of the register is included policy in redougheat great and provided analysis of the register is included policy in redougheat great g

industry generally needs to be near raw materials.

has lingered longer than elaswhere; it is not

good communications, components and large existing centrus, this attuation is unlikely to change much in the future. 25, in our view it is not realistic to speak of balanced industrial structures in areas where the

supply of labour is so small that one or two firms can absorb it all. Even in medium size towns there is not always room for choice in the type of incoming manufecturing industry which would achieve a resecusible rate of employment growth. a belance between male and female lobe and hetween occupations, and a range of capital and consumer goods industries. Because East Anglis hea a relatively small lebour force in manufacturing there is a rather narrow renge of skills and expertise. which is unlikely to be rectified without further intensification of training measures. Workers leaving egriculture do not usually have skills of use in menufacturing industry. Though firms moving into the region are helped to bring their key skilled workers with them, a substantial proportion of employees migrating from London under the Industrial Selection Scheme are unakilled.

26. Most menufecturing establishments in the

region are comparatively small in employment

tame, and the new establishments which have

recently come in have tended to be small. For

lostance, there are only 11 menufacturing statelishmeated in the ground with over 2000 employees. For a long time to come, fast Anglis will need for a long time to come, fast Anglis will exect many efficient seal and medical sets autibilishments in the region, the leges once are usuallymost generally the compact of the compact methods of production and marketing, and is the quality and many of their temporary compacts of quality and many of their temporary compacts of the compact of the testinics. They offer opportunities of economies of scale and of rationdistance and manneration to semblow disclaytic production and marketing and the state of the disclayer and manneration to semblow the state.

27. We believe that Industrial eatablishments will become more and more relucant to go to small cowns because they needy all need a streetle pool of trained or trained in the bour, and town size is therefore an important factor influencing location and growth of Industry. Only a few firms will willingly choose a rural location where they

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can dominate the local labour market. The next most important dermad is for good communications with suppliers and with markets. Films also have regard to local educational end other social survices, to the general impression created by the town centre and environs, and to the attitude of the local community to industrial growth.

28. Each of the existing ten small town development achemos is an important growth point in its own locality: taken together, they are committed to accommodating a substantial proportion of the oversoil total. On the whole, they have menaged with the help of Greeter London Countil inducements to obtain new industry to keep in seasonable halance with the supply of population and bousing. However, this has not been an easy process, and they must now face added compatition from Development Areas and from larger town expansions such as Paterborough, Ipswich, Milton Keynee/Northampton and South Hampahire. In comparison with the major schemes, the small towns have some inherent disadvantages. For incoming industry, they are often remote from merkets, suppliers and specialist services, and the labour force evallable la amail and not diverse. For employees and their families, there is a comparative lack of social and recreational amenities and a relatively nerrow choice of employment, particularly in office and service occupations. These towns are often economically rather vulnerable to abrupt obseroes in the prosparity of their industries and administratively

business decisions. Unless the country as a whole stativises a standy growth rate wall above whole stativises a standy growth rate wall above to the station of the station of the station of the likely to be hard-hit. The fact that prospects are not as good as the bleen hoped centro the wholly entitlouted to the general economic situation or the substanced inducements in Development Asset. comments the picked consortium of the station of the comments the picked of the primitive nature of tall 1932. Town Development Ast. The picked of the primitive nature of tall 1932. Town Development Ast.

liable to dislocations in phasing by quite small

projects to Development Area, but neverthistes the softwisteration of the distribution of Industry policy has not operated more benefits of Industry policy has not operated more benefits of the Area of Industry has a few and the Industry has a few and Industry to Industry has a few and Industry to Industry has a few and Industry to Industry has a few and Industry h

30. However, the Council must now register aome apprehension. In recent years East Anglish has been committed to a large-scale population increase while at the same time there has been both as authorities accumulation of incentives and a stiffening of steering policy to promote employ.

ment in the Davelopment Areas end their special development clarkets. These enhanced increatives are bound to be experient to be a second to be set to be a second to be a second to that they have Sapoid the belience against most proplyment growth in Eart Anglas, Acided competition from major appression outseld the significant properties of the second to the second home to be called the second to be a second to the second post finesetingly to also own industry to generate second second to the second second post finesetingly to also own industry to generate the post of the second second second properties of the second properties properties of the second properties properties

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new employment opportunities. If growth is seeployment nearonally is allow or fluctuation, the least prosprous erace of the region and the apparding toxens, and even the New Toxens, could encounter section afficiation. The reservanational economic illustrian has shown that creatin of the present towns explained neareman as vulnercould properly the properly of the property of properly operations are the properly of properly operations are the many Lundon familiar whose programme are the many Lundon familiar.

5 Lines of Action

INDUSTRIAL POLICY 31. We have shown that in the period up to 1971 edditional employment will have to be provided in the expanding towns. For the 1970s on increasing flow of new industry will have to be brought into the region, points of growth and existing industries generally will have to be fostered, and the expansion of larger establishments will have to be encouraged if sufficient employment is going to be available for the repidly increwing indigenous population and if the planned expansion achemis are to succeed. Distribution of industry policy must be flexible and

reellatic enough to permit this. 32 A committee under Sir Joseph Hunt la exemining the eltuation in ereas where the rete of economic growth gives cause for concern, and ws heve already drawn its ettention to the problems of our 'arey' erece, where we believe that positive measures are needed to generate economic

33. After the committee has reported, the Government should review its distribution of industry polloy generally, end we think it essential that the whole of the East Anglie region be included in this review. Industriel development certificates are not granted enviyable in the region for projects which can resequebly be expected to be carried out in a Development Area. With the exception of Norfolk there is at present no plear differentiation In regardbutton of Industry policy between East Anglie end regions showing congestion and eavere labour ahortege. We would expect the Government to make this distinction quite plain end freely to ellow the growth of Indigenous industry to provide a stronger structure and to reduce the need for mabile industry from London. 34. In particular, we consider that in the expension of Peterborough and Ipswich, existing firms should he allowed to expand, provided researchie belence between industries can be maintained. A mejor consideration in selecting these towns for expansion was their potential for self-generated industrial growth. We do not think it would be logical to divert this growth to Development Areas and then to try to ettract generally small industrial

units from London. This would be bound to slow

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down the rete of expension. In eddition, it would else double the industrial and applet movement costs and would prevent the growth of larger establishments which the region requires. Moreover, our few medium and large establishments might be the most capable of building brench units in neighbouring rural towns, thus helping to acive unemployment problems there while con-

serving scarce managerial and technical resources and aggnomising on common services. 35. Similarly, any firm persueded to undertake

the considerable upheeval of making the economic contribution of a move to a New Town or to an expending town should thereafter be ellowed to expand in its new location in scale with the industrial needs of the town, subject to local

authority ecreement. 36. New industries for ipswich and Peterborough will in part be competitive in lebour demand terms

with existing industries. In order to essist orderly industrial growth and to try to evoid dislocations in the skilled labour market, we have elready recommended that the Development Corporations for Peterborough and Ipswich should be effectively staffed to risel with questions of industrial expanelon end balence, menpower forecesting. lebour recruitment end training, and to establish close lialeon with industry and commerce, government departments and bodies such as industrial training

37. Meanwhile, we are discussing with the South East Economic Planning Council its proposel that for each mejor overspill scheme there should be an interdepartmental team responsible with development corporations and local authorities for regularly reviewing the rate of provision of housing, employment and eopiel emenities

38. A greet emount of the employment growth in the overspill towns has been due to the second priority given to them after Development Arese for firme moving out of the Greeter London Council area. Firms outside the Greeter London Area are not usually given the opportunity to move to an overspill town. We support the recommendation of the South Feet Economic Plenning Council that this second priority should be extended to firme in the Outer Metropoliten Area.

39. We recommend that the progress of the smaller expansion schemes should be related more closely to the rate of actual job growth, which may well be slower than the potential rate of housebuilding. More effective consultation and coordination between the local authorities and government departments concerned are necessary if the towns are to meet or approach their population targets in the long term. Those existing town expansion schemes which ere not natural bases for rapid industriel growth may wall need to be able to offer some positive inducements over and above factories and housing priority, for example, by being granted some exemption from the recent

restrictions on loan senction. 40. We have already referred to the importance of a review of distribution of Industry policy generally: we wish to be assured that all these recommendations will be fully considered in the context of this review, and that this will be done mulcirity so as not to hold back the development of the region.

licences for new office dayslopments in all regions

south of the Wash, except the South West, in order

to check the continued growth of offices in

Office development 41. The present Government has Introduced

southern England (aspecially London and Birmingof the office community in the main centres. ham), to relieve congestion, end to secure a better distribution of employment and use of resources. This control has applied to East Anglie since 1966; since July 1967 it has been applied only to projects over 10,000 sq. ft. (ebout 80 lobs). Projects which had received planning approvel before the control have been allowed to be completed, and the Board of Trads informs us that a number of projects. for local needs heve been epproved under the control requistions end that the amount of office building refused in East Anglia has been small. and that the amount of dispersal to East Apolle 42. We find it very difficult to understand why our region is included within this control, as we do not suffer from the congestion and the other problems

which are given as reasons for its application. In fact, the economic feetures seem to require more office amployment rather than less. First, the proportion of our economically active population working in offices is below the national everage. Unfortunately, we have no figures later than the 1961 census when, in East Anglia, 14 per cent of the economically active population worked to offices, compared with 18 per cent in England and

Weles and 23 per cent in South East Popland as a whole. At that time East Anglis had the lowest percenteds of office workers for any motor now within the control. It seems unlikely in view of the emphesis on menufacturing amployment in expending towns that this disproportion has been lessaned since 1951

43. Secondly, we are one of the few regions with an expanding population of working age. Assuming that about one-fifth of the employed population will work in offices, than between 1966 and 1981 about 35,000 more people in East Printed image digitised by the University of Southampton Library Digitisation Unit

Anglia might be expected to seek this type of employment. Some jobs will be provided in offices srising in new menufacturing industry and in the local service industries, but there will be a need for further office work in the region, mainly in the large cantres but also wherever possible to provide a more balanced employment structure in the smaller town expension schemes. Office employment would be perticularly advantageous, as it is an expanding and stable sector of the economy. 44. Thirdly, we believe that, given the opportunity, certain locations in our region can ettract office development. Heving in mind the experience of

the Location of Offices Bureau that most offices with ties in the South East can move only Emited distances, it would seem that East Anolle can make e contribution to the relief of office congestion in London. East Anglis's edventeges for office development are likely to increase in the future. and therefore some appoulative office building should be allowed as an inducement to firms to move. Physical distances between the major centres and London are comperatively short, and further improvements are expected in communications. The expansions of Ipswich, Peterborough and possibly Norwich should improve their office ancillary services and enhance their afficiency as office locations. At the same time, the expansion

should sustain wider improvements in town centre emenities end services. 45. In view of all these considerations the Council sees no point in maintaining or appearing to meintsin the present control on office develop-

ment in East Anglie and recommends that it should be lifted immediately. 46. We also recommend that the region should continue to be eccepted as a reception area for the dispersal of government department offices.

should be increased. Training

47. The expension of industrial activity, particulerly in the New end expanding towns, the raising of the proportion of workers in manufacturing, and general technological advance all emphasias the need for meesures to increase the supply of skills. 48. Forecasting of supply and damend for skills

is still et a rudimentary stage nationally, but it is vitally important for impending shortages to be roughly measured and forecast in regional or subregional terms, in view of the time necessary for training to increase supply. Reesonably accurate Information on the degree of shorteges constraining growth would provide a fair basis for changes

in practice. 49. The supply of new skilled isbour will be broadly influenced by the industrial training boards which are being established to gover all important industries, but the full implementation of the 1964 Industrial Training Act will take several more years to work through all parts of the economy. We hope that the training boards will be quick to sease the applical problems and we welcome the decision by some boards to set ye regional constrained by some boards to set ye regional constrained we recommend the boards to take applical measures to increes training and re-training in case with regions forecasts of deamed for skills. 50. The acquisition of a skilled and skazeble shoot force will no doubt be helped by yet measures which will accelerate the training process. The training programmes be large present of the house-

which will accelerate the training process. The training programmes being prepared by the industrial realising boards will, we hope, lead to changes in the existing postern of appreciationship and cart training, so that entrette to industry can reschskilled seeus in a schortsr the than at present. We recommend that appreciately training should be re-exemined with the particular problems of the region in mind.

ing need for the re-treining of eduble in particular, specialization with a size of the perhapsion of the advance will include men in the other age prought both via see no resem in suppose the first will be seen other included in the new Government for other included in the new Government training Center as Norwidon will half be some measure, and no doubt the Department of Employment ment and Productivity will consider in due course the need for certar as it powers that the ten and the course of the course the need for certar as it powers and half between the new course of the powers, and it is for industry to drive southers.

in conjunction with the industrial training boards. 62. The Construction Industry Training Board has cereblished its netional centre for off-the-lob operative training at Birchem Newton in Norfolk. Good examples of co-operation by firms in group training echames are provided by the centre for treining welders at Greet Yermouth and by the East Anglie Group Industrial Training Centre et Norwich for craft apprentices in angineering traces. The development of schemes generally has been disappointing, bearing in mind the grant incentives available. This is surprising in an area in which there is a high proportion of smaller firms. Such group schames might offer a solution to employers who are unable to provide full training within their own establishments, and we recommend em-

ployers' associations to give further encouragement to these schemes. 53. The high rate of occupational change in East Anglis comperes with that in Development Areas. We therefore recommend that the very sensible sesistance which the Dapertment of Employment and Productivity gives to firms for training for additional lobs in Development Areas should be extended to East Angile. These measures include short-term grants of £10 weekly for men and £7 weekly for woman for training to semi-skilled level for new labe, to help firme to men up and trein for production processes; grents towards the capital cost of machinery and premises for training purposes, in addition to inquetrial training board support for creft training, or per cente grants

where training is on-the-job; courses for super-

visors and instructors, and free services of Ministry

Instructors for training in semi-akilied and anginearing trades or allocation of government training

centre places.

54. We approve all these measures; for East Anglian purposes we regard the weekly grants and capital grants as particularly important. These measures are aspecially necessary where wage-releted redundency payments are likely to be low.

Management training 55. The need for better menagement training has

eroused much attention nationally in recent years and it is clear the most life more never of the need to introduce and division more advanted in introduce and division more advanted to introduce and division more advanted to introduce and division more advanted to introduce and division more advanted and advantage of the control of t

cerer downlopment*. \$6. There are no echools of menegament technology in the region, and both full-time intermal courses and shorter courses for middle management are needed. These would greed detailed knowledge of modern side to menagement, such compared work dutyl end computer progressing and controls; they would also enhance the interchange of ideas between fillings and between Industry and educational films and between Industry and educational.

institutions.

67. The Council is consulting the universities, the

Regional Advisory Council for Further Education, the Bittish Institute of Memograment and other organizations on the complex queetion of providing formal menagement advocation courses at various levels within the region.

Special messures for 'grev' areas

66. In preparing evidence for the Hunt Committee, the Council has made a special survey of the accompanie and accilel circumstances of two rural areas of the region. North Nortols end the old laie of By, se assemples of the kinds of problem which may be found in certain perta of the region.
69. The probleme appeared to be closely inter-connected. The persistent disclinal in male employment.

ment, perdoutarly in egitculture, leads to some unemployment, probably considerable undersembloyment, very low evering a some not observed migration and set increasing number of long journeys to work. A number of coolsi problems are directly related to the chenging pattern of settlement size and function, including the difficulty of providing visible community services. 60. One solution which he be some suggested is to

ellow towns and villagos in these areas to become increasingly dependent for employment on the major cities. This would involve dow, extensive has agreed to the belong self-employment of recognic HMSD1 cold. and costly commuting over long distances, which would not be a practicable possibility for lowlypaid manual workers. Equally, it would not be fessible to promote menufecturing growth in a large number of small towns. We have therefore recommended to the Hunt Committee the development of a few selected employment sub-centres to provide employment for surrounding ense. The scole of the problem is small, and the amount of new industry needed would not be prejudiciel to the overspill programme or to the Davelopment

81. It will be difficult to attract industry even to this limited number of employment sub-centres. We do not think a further relexation of industries development certificate policy alone would provide sufficient industry; other specific industriel help is needed. We recommend for the selected centres that there should be advence provision of standard factories, building grants at the same rate es in Development Areas and a Higher rate of

Aress.

investment grents.

CONCLUSIONS ON THE OVERSPILL PROGRAMME 62. Even if our recommendations on industrial

policy and improvements in communications and other infrastructure are broadly accepted and implemented, they will only cope with the nonulation increase at present in prospect for the

region. Therefore, we must conclude that efforts should be concentrated on ensuring the success of the two major expension schemes and of the emplier town development schemes now in operation, and on adapting the settlement pattern to modern needs. 63. We recommend that no further processe for

increasion the oversoil programme should be approved, with the two exceptions of Norwich and Thatford. We support the proposal for a moderate extension of the Thatford scheme, which has shown good progrees; the town hee benefited from reletively good communications and serves a wide hinterland. We also support the proposel for some 30,000 Londoners to be brought into the Norwich eres, which is well able to provide the industrial and social requirements set out earlier.

64. There are many market towns which cannot provide a satisfactory range of community facilities necessary for a full and astisfactory life and where employment opportunities can never be broad. But we do not reperd new oversoil echemes se the correct solution to these problems, and we edvocate instead the selection of a very limited number of these towns to provide employment and social fecilities for a wider hinterlend. The Council's views on the strategy for future popu-

TRANSPORT AND

letion distribution are given in Pert i. Chapter 6. COMMUNICATIONS 65. A most important prerequisite to continued Printed image digitised by the University of Southampton Library Digitisation Unit

improved basic communications system. Roads

86. The Council has repeatedly advised the Minister of Transport that the ospecity of the road everem is curte inadequete for the treffic it carries today. We have urged that the Government should give a much higher priority for road investment in the national ellocation of resources, and maintained that feet Anglie's shere is disproportionately low.

industrial and appulation growth is a greatly

Furthermore, unlike most regions, East Anolia dose not get any share of the separate public investment elicosted to motorways. We do, of course reconise the serious economic difficulties fecing the country at the present time and the consequent need to restrain public expenditure, but unless there is a very much larger investment in the improvement of roads than has been announced so far, the economic development to which the region has been committed will be retarded. The Minister has assured us that present methods of investment appraisal are being re-exemined to see whether regional needs could be taken more fully into account, and that the importance we attach to the prior existence of edequate communications se a condition of new development will be borne in mind. We would expect to heve further discussions to see how far special regional factors ren he teken into eccount. We have been gled to note that most of our previous recommendations

road achemes. 67. In addition to the implications of the popu-

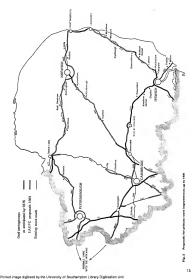
letion prowth, there are a number of special factors which aid to the pressures on the roads. The feliate staffin generated by existing and future industry requires epeedy eccese to its markets. suppliers and ports. Furthermore, there are as yet no freight liner terminals in the region. Car ownerable in East Anglie is above the national average because of the dispersed population, and we expect e more than proportionate increase as incomes rise to a level nearer the national everent. The prowing touriet and holidey trade will also edd to roed traffic. Industriel growth will be concentrated in a few centres and will have to draw on rural lebour cetchment ereas heavily dependent on road communication.

to the Minister on road priorities have now been

incorporated into the 'preparation pool' of trunk

68. If new inclustries ere to be attracted to East Angle and existing industries anabled to expand to fulfil employment needs, they will have to be convinced that their costs, including transport, will be sufficiently compatitive to austain them. Transport can be an important element in selling costs, and road delevs will detar firms for whom the transport costs would be substantial from coming into the region.

69. The East Anglia Consultative Committee (EACC) hee provided us with a valuable appraisal of the road programme required in the region up to 1991 and beyond. This is based on calculations of the swiffic flows which will be generated by the



increasing population. We have broadly accepted its recommendations of road requirements up to 1981, and those are the basis of the road network set out below which we regard as the minimum required to meet the region's needs. The network is illustrated in Figure 2, which also shows how the system is connected with other regions.

Motorways*

70. East Anglie, unlike many other regions, does not and will not have the advantage of a national motorway route passing through the region. The western and southern parts of the region will be served with good road links to London by meens of A1, M11 and A12. The Council has exemined the proposition for a possible cost-west motorway from the southern regional ports to the Midlands. The Ministry of Transport states that even efter augmenting the forecast of general increase in traffic to allow for additional traffic which may be attracted to the improved ports of East Anglia, the total traffic to be expected on A45 between Ipswich and Felixstowe and the Midlands by 1980 is not likely to accord the capacity of a road with dual two-lene carriegeways, except et Cembridgs, Newmerket and Ipswich/Felixstowe. Such roads can be constructed on the present alignment et an estimated cost of about £500,000 per mile. excluding land cost, with diversions and by-passes where unsatisfectory alignments and built-up areas make these necessary. The provision of e motorway across East Anglie would cost approximately £750,000 per mile, excluding lend cost. and would use more egricultural land.

71. We therefore egree with the conclusion of the FACC that neither an east-west nor a northsouth motorway is required before 1981, on the clear understanding that the elternative improvements set out below are implemented. Even after 1981 it is doubtful on present showing whether a motorway would be justified, eithough it is recognised that in the vicinity of major expansions some duplicate roads designed to motorway stendards might be needed.

Trunk road proposals*

72. The EACC estimates that in 1968 over helf the 380 miles of rurel trunk roads in East Anglia were cerrying treffic volumes which were between 20 and 100 per cent in excess of their desirable maximum capacities for the sefety end free flow of treffic, calculated on the basis of the provisional standards being considered by the Ministry of Transport for new roads, 8y 1971 all the trunk roads, except the lengths of duel carriageway on the A1 and A12, will have become in that sense 'overloaded', unless by then they have been anierged.

73. Improvements in the pest have been concentended on north-south lines of communication converging on Landon, but the beneficial effects of these links will be diminished if the north-*See Clossey. Printed image digitised by the University of Southempton Library Digitisation Unit

agetern approaches to Landon cennal absorb the raffic flowing into the capital. We therefore support the representations of the South East Engageric Planning Council for better roads in that pert of London. 74. North-south routes ecross the region are provided by the A1 on the western eide, the A10

from King's Lynn to Royston, and the A12 Great Yermouth-ipswich-Landon route on the eastern side; ell these routes will have to be considerably improved and in some cases dualied. 75. An east-west route from Felixetowe end

powish to the Midlende would be an improved A45, provided this were suitably connected beyond the East Anglie boundary to the national motorway network. Such a route is dependent upon the provision within the region of by-passes et Welton, Trimley, Needhern Merket, Stowmerket. Surv St. Edmunds. Newmerket, north of Cambridge and at Huntingdon and Improvements of the intervening lengths. As will be seen from Appendices 19 and 20, all these are already programmed or in preparation for completion by the middle 1970s, except the Combridge northern

78. Similarly, on east-west route scross the northern part of the region would be from Greet Yerrouth siong the line of the A47, with by-passes et Biofield, Acie, East Derehem, Sweffhem, King's Lynn and Wisbach and the improvement of the lengths of road between them and the ring roads eround Peterborough and Norwich.

77. A route running north-east and south-west ecroes the middle of East Anglie, linking the region with Landon, would be provided by duelling the A11 from Norwich to the proposed M11, with by reases at Wymondhem, Attleborough, Thetford and Newmarket.

78. A western by-pees of Cambridge is necessary to remove through treffic from the centre of the city. The importance of this route would increase with the completion of M11 to Stump Cross. It would also be used by treffic from the seet Midlands and the North going to the east side of London.

Treffic congestion in urban areas 79. Urben congestion is so endemic that its economic cost is seldom eppreciated, but it is expected to justify the construction of new, high standerd, primery urben road networks for the treffic generated locally and for the distribution of goods treffic. This will require investment of meny millions of pounds, inswich and Peterborough are likely to be provided for under the errangements for New Towns, but Norwich, Cambridge and

other towns present special problems. **Public investment**

SO. The EACC hee estimated that the cost of the improvements necessary for eliminating overload on the rurel trunk roads would be £160 million over the period 1967-81. We have been edvised by the Ministry of Transport that, if the present degree of congestion were regarded as acceptable. the cost might be of the order of £140 million. Corresponding estimetes for other main urban and nursi traffic soutce imply expenditure of £135 million or £110 million, including the 25 per cent renylded by local authorities, but excluding the ensolal provision for New Towns at Inswich and Peterborough. The total expenditure implied is thus £295 million or £250 million

81. The EACC estimated that the ectual total public expenditure up to 1974 might be about £45 million on the basis of schemes sirendy announced for proparation or implementation. If allowance were made for schemes which might subsequently be introduced, this astimate up to 1974 would be too low, but unless there were a major and audden change in government policy the increase would be unlikely to exceed £10 million, if this rate of expanditure were maintained until 1881, total investment on improvements to main traffic routes would amount to £110 million. 82. This implies that if the needs as assessed shows were to be met, total public investment on roeds over the period up to 1981 ought to be some two-end-a-half to three times more than what asems likely given present trends and policies. Substantial additional investment in

loswich and Paterborough will also be required. Given the probable limits on the overall growth of public expanditure in the next decade, it is clear that even if East Anglia's share in the national road programma is substantially increased, as we have recommended, it would be unreelistic to suppose that it will be notalible to finance the whole of this rengramme. This means that the region will have to face growing congestion both in urban centres and on major routes. This will be a severe obstacle to aucceasful aconomic expansion.

83. We therefore recommend: a a aubstantial increase in the finances evalishin

from central Government for the roads in East Anglia: à that the major loosi authorities should

similarly increase their financial provision; o that the Ministry of Transport and the local authoridas concerned should examine the scome for adjustion the belance of total roads expenditure, so se to secure the meximum for the more urgently needed major improvements by allocating proportionately less for other work;

d that when we have some clear indication of the probable finance available, the Council should examine the priorities to be ettached to different projects.

86. It has been auggested to us that the imposition of tolls would be an additional means of financing the road programme. The present policy is to restrict toils to cartain bridges and tunnels, and we do not consider that it would be astisfactory to extend the everam to made in Fast Anglia: many access points would be needed, and the costs of collection would be disproportionately high in

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relation to revenue.

Carriage of goods by road

85. We would wish to be essured that the restriction imposed by the new Transport Bill upon the use of large goods vehicles for journeys of over one hundred miles will not hamper East Anglien Industry and farmers, or discourage firms from coming into the majon. For instance, egriculturellats and horticulturalists have expressed apprehension that this restriction will add appreclably to their costs and destroy their operating fieodbility.

Rallways

88. We have become increasingly concerned about the cumulative effect of British Reliweys' proposals for the withdrawal of individual peeeenger services, some of which have already been implemented. They would, if the Minister of Transport's consent were given, mean that a very leage area in the northern part of the region would be deprived of local rall passenger services. On some of the lines concerned, 8 ritish Rollways have already withdrawn some freight services. The absence of relivery personger and freight services over such a large area would be lieble to make the area less ettractive to industry then pieces in clost proximity to the reliwey eyesem, thus militering against growth in the northern part of the region. 87. We recommend that ell lines already proposed for closure should be reconsidered by the Minister when examining the apply and economic benefits of grant-alding unremunerative reli passenger services.

RR. We attach importance to the need to sneble more fmight to be diverted to the reliways from the major roads in the region, and the Minister has been eaked to urge upon British Raliways the great need to provide competitive freight services in East Anglia.

depend on the strength of its appeal to the com-

88. The long term future of any port will inevitably

mercial judgment of shippers and shipowners. This itself will be a matter first of how its location hoppens to fit in with the changing pattern of international trade; eacondly, of how autable its axissing netural or other characteristics make it to cater for the evolving techniques of transport by see and land, such se the trend for ocean freight to be conveyed by bigger ships requiring longer berthe and deeper water at ports of call, and the Intensive use of unit-load cargo systems, requiring extensive areas for mechanised handling; and thirdly of how attractive are the pervices and facilities which it offers as a result of investment. Ageinst that background, decisions concerning port development in East Anglia, whether by individual port authorities or a controlling body, should be guided in each instance by a restistic agreement of prospective traffic, arrived at in consultation with all the commercial interests concerned: such decisions should take into account the overall economy obtainable from a degree of specialisation among small ports as against the provision of a wide range of teclinies at each 90. On the above heals we would consider it

90. On the above basis, we would consider it right for the country to take increasing advantage of the specially favourable position of the Stour/ Orwell astury for serving United Kingdom trade with north-central Europe. In our judgment, national economic benefits should also accrus from associating with that short sea traffic services for deep see trede, especially in view of the anterprise and efficiency already demonstrated in the Haven Ports complex, and their admirable labour relations record. We would expect the future of the other ports of the region to be in services to e limited, regional hinserland, making the most of the ability of small ports to deal with small ahipe expeditiously, achieving quick turn round and fast transit of goods.

Civil aviation 91. There appears to be no justification or need

for a major rejoons alroper to serve East Agriculture of the Other International prior in Characteristicals with the Other International prior in Characteristicals and the Other International Earlier (in the region in Characteristic International Earlier (in the region in Characteristic International Earlier (in the region in Characteristic International Earlier (in the Region I

sem, Regish tear/dess and medium angre sehrcidic team. Segish tear/dess and medium angre sehrcidic SE, Sest Angle se here bet a server by modest development of the existing simport (service that one overlopped to a finite sense; seed allocal development of the existing simport (service that one of the overloped team) and the sense of the overloped team of the existing and conditionation of the overloped team of the

35. Obviously the alsport requirements of the region rate to be feet under evision, perfectively, region rate to be feet under evision, perfectively, boundaries of the region. This will follow as the strategy for the region becomes more clearly defined, it is outle clear that in the long turm there is a need for the entirelazance of sectious elegand the 1891. While Pecer for under the terms of the 1891. While Pecer for the terms of the 1891. While Pecer for the terms of this region, where some nacessary at associate this region. The perfect the perfect of this region, where some nacessary at associate the product of the perfect of the perfect of perfect the perfect of the perfect of the perfect of the perfect of perfect the perfect of perfect of the perfect of perfect the perfect of perfect o

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will be difficult to justify on purely economic grounds in the early stages

POWER SUPPLIES AND

NORTH SEA GAS 94. We have accepted the educe of the Mutatry

of Power that future supplies of all fuels and excess are likely to be sufficient for all foreseeable industrial demands. Of particular interest are the economic implications of the discovery of North See gas it has been suggested that the North Sea gas finds would offer good prospects for industrial expansion in the northern part of the region. The economic and technological prospects are still unclear, but on the basis of the edvice and nonsiderations put to us so fer we do not think that the region can expect this new source of fuel to give us material advantages over any other region. with the importent exception that its advent will help to offset the price disadvantages which have resulted from remoteness from other primary sources of power. 95. Under present policy the Gas Council will

so. Under present policy in it us council will we varieties for load factor, to all area gas boards. We are avusting the outcome of the second regord of the National Beard for Prices and forcess on problems of pricing policies, but it appears that we have a second regord of the National Beard for Prices and forcess on problems of pricing policies, but it appears that will be appeared to the problems of the National Pricing Secondary of the Pricing Secondary of the Secondary of

96. There remains the possibility that industrial complexes can develop in Britain, using the gas as e chemical feedstock. More economic investigation of this is needed. It appears to us that legally any concern which owns a North Sea cas concession could use or sell the gas as a petrochemical feedstock, but it seems unlikely that any auch concern would select Norfolk as its base. These complexes are based on products from large petrolaum refineries, and the crude oil imports depend on the use of very large tankers requiring deep-water berths; direct amployment at these complexes is guite small. The use of ose by the large integrated chemical complexes alreedy existing on the east coast at Grangemouth. Teesside and South Humberside would eposer to be a mora practical economic prospect, since it would be cheeper to take the gas to existing facilities rather

then bring new facilities to the gas. 97. The pace of technological change in the utilisation of natural gas is likely to be considerable, and future developments may well have further

unrestoc on factors gas initiarly to be considerated, and future developments may well have further implications for the region. We think that the majority of people in the coastal towns of Nordolk and East Setfolk—and many people alsewhare—would accept our conclusions because they would be related in any

event to ellow the considerable loss of america to the nation as a whole which such a development would make inevitable

WATER SUPPLIES AND THE WASH BARRAGE

99. A general note about water supplies and demands in East Anglie is contained in Part II. Chapter 9. We deal here with the idea of union the Wesh as a fresh-water reservoir. This idea was examined in a report on the water resources of the Greet Quite Besin prepared for the Minlety of Housing and Local Government in 1955 by Binnie and Pertners, consultent engineers*. The Weter Resources Board 1966 report! recommended e full feesibility study of a berrage at an estimated

cost of £14 million. 100. The Council expressed to support for this recommendation. However, the Government decided that the right course would be to give priority to groundwater investigations and not to authorise the feesibility study in the meantime, eithough the situation would be kept under review. Priot studies had already been started on the prospects of obtaining substantial groundwater supplies; these, together with surface reservoirs, were expected to meet demand for the next

twenty-five years. 101. Some members of the Council are epprehensive about the lose of good spriguitural land under reservoir echemes elready proposed, end feer that if the pilot groundwater studies prove negative there is a risk of water shortages or undesirable stop-osp meesures, such as further surface reservoirs while other sources are being investigatori. There are also wider argumente about the additional aconomic banefits which might be obtained from a barrage. The cost of water supply is the main factor in comparing siternative methods of supply and conservation. but we have stressed that a thorough study might be made of the additional costs and banefits. Undoubtedly, the transport, emenity and land replemetion issues will become pleaser as the current economic studies on the Oes end Morecembe barrege proposals proceed.

102, in September 1967 the Water Resources Board submitted to the Minister detailed proposals for a deak study of a barrage as a necessary preliminary to a feesibility study. The deek study would give a clearer idea of the goet of a fessibility study and also of the economics of using the Wesh for water sunnly, possibly in less embitious weys then that suggested in the Binnie Report. We fully supported this limited proposal, and we

are very glisd that the Minister has accepted it.

SOCIAL SERVICES 103. We have made a preliminary survey of the structure of the education, heelth end some of the "Raport on the Water Researces of the Greet Class Seein, 3 volumes. Ministry of Housing and Local Constituent, 1886 1994er Supplier in South four Anglood HUEQ 1986.

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other social services in the region, and the main feetures are set out in Pert II, Chapters 10, 11 and 12. However, we have not been able to make a systemetic exeminetion of the problems of these services in equition like the same detail so we heve of the problems of industry and transport or the location of population, and we do not therefore wish to comment at this stage on overell regional policies in these fields. However, there ere a number of specific issues which have emerged from our study which we think ere of Immediate relevance.

Education 104. One of the most striking features is that the proportion of pupils who stey on at school, their success in gaining entry qualifications to higher education courses and the extent to which they go on to take higher education courses all fall below the netional everage. This has a number of importent implications. First, in proportional terms. It meens that the reising of the school leaving age will creete a considerably larger extra demand for school please in East Anglie then in the country as a whole. This demand will be further reinforced by the very recid increese in population. The school building programme for the region as a whole will need to be looked at in the light of these trends. Secondly, the experient lack of public Interest to bloker advection may have its roots in the limited educational opportunities evallable in some rural primary schools. Therefore further epodel messures may have to be taken to ensure that children ettending certain rurel achools ere not at an educational disadventage. We have in mind such measures as those recommended by the Plowden Committeet. Thirdly, young people In the region need a great deal more encouragement to take full-time and part-time further education courses from their local authorities. teechem, employers end perents. Firms should help their young employees to take sendwich courses, and where trevelling is a problem they should ellow employees to take block-release

106. The Government's piece for the establishment of a limited number of major centres of further education, in which the bulk of the edvenced level courses will be provided, do not at present include designation of a polytechnic in East Anglie E. We have been disturbed by the Government's Intention that the present list of polytechnics should remain unchanged for ten veers. We consider that within a much shorter period the development of edvenced courses, for which the entry qualification is 'A' level GCE or equivelent, to meet the growing needs of industry end commerce to Fest Ancils may well justify the dealongsion of a major establishment in the major. es e polytechnic, end we would like to receive an essurence that there will be opportunity to review the position in not more then five years' time.

SCHOOL and their Pricery Schools, HMSO 1997. &A Also for Polyte strates and Other Colleges, Grand, 2008, HIM SQ 1988.

106. The regional health and welfers services are of concern to us, se they ere an important component of the spcies infrastructure which is essential to the satisfactory development of the region. Up to now we have been looking at these services malniv in the context of the public expenditure programme for the region. That numbers, ege structure end distribution of popuiation ere important factors which the Regional Hospitel Board must take into ecoount in preparing its ten-veer rolling programms, and we have been essured that the recent cuts in public investment have not effected this. We have not yet had en opportunity to examine in detail the extent to which this public investment programme is sufficient to meet the growing needs of the region and its changing distribution of aggulation. Nor here we get been able to essess whether the general criteria which are used for calculating the scale and pattern of services to be provided are appropriate to the special problems of East Anglia. 107. The present shortege of doctors is, of course, general throughout the country, and the Royal Commission on Madical Education has recently recorted on future training regularments and the

question of new medical schools*. At newsent them is no undecoraduate teaching boselfal in the region. The Royal Commission recommended that an undergradueta clinical school be established at Cambridge in essociation with the existing departments of pre-clinical medical sciences and the post-greduete facilities. They concluded that few pieces in Britain can provide the population. hospitele and university development that are needed to support medical achools, if, in the long term, the University of Cembridge were to decide against adding clinical tracking on a substantial scale, we would support the Commission's auggastion that the clinical resources in East Anglia es e whole might well be sufficient to support a new medical faculty at Norwich associated with

the two mein Norwich hospitals.

108. Increasing leisure time, incomes and mobility are eltering the petterns and levels of recreational demend. The evidence from Britain and other highly industrialised countries indicates that vary great increases can be expected in participation in such eqtivities as driving for planaum, ploploking. sightspeing, walking, ewimming, boating and attending or joining in sports and cultural activities. 109. These expected changes in Jelsura patterns and the use of amenities are very important for East Anglia. Not only does the region provide for those kinds of laisure pursuit and holiday-making which ere the most rapidly expanding, but it also hes erose of great netural beauty and interest. The region may therefore expect a great increase in the damend on these resources

110. This growth must be seen in relation to the

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growth of industry which we believe to be necessary, and size in relation to the fact that approximately 72 per cant of the land surface of the region is divisited to predomently emble agriculture. There is some conflict of interests here and we latend to examine this problem in our future work.

11.1. It is necessary to apparets from the listuaand metally problem two apparets also of Insteads. First, Date set this helds for failure and recessfor the problem of the problem of the problem of the extra the registration of the holds; means and visitors coming into the region. These two ests of locates are in homeony to the sound that they obtained an interney to the sound that they facilities for listure and amonly than solite as facilities for listure and amonly than solite as the most strateful than solite and the families with a solite and the solite and the families are traceful. The solite and the solite families are traceful to the solite and the solite families are traceful.

facilities caused to those living in the region. 112. The points made in the preceding prangraphs indicate the need for an integrated policy for lessues, tourism and exemply at the regional test We do not at present have the datalled information which would anable us to outline such a policy, but we welcome three developments which had in that disented.

e the provisions of the Countryside Act, especially the creation of a new Countryside Commission, and Exchaquer gaste Commission, and Exchaquer gaste towards approved new facilities and services; between 64 the Essent Sports Council and other associated bodies in surveying the facilities for sothe outdoor pursuits and

essessing the needs for new facilities. We regard this work as complementary to our own; the sentative proposals made in various quarters for an Arts Association for the East

Anglia Region.
We attach great importance particularly to the
first of these points, since we think it could feed to
the greater provision of strategically placed neurons.

paths and pionic sees and so draw holishymakers and others away from conflict with agricultural and industrial land use.

113. In Figure 3 we have depicted our preliminary views on rease of the region which are of particular mentity value. The potential fixes or Outstanding Netwari Searchy softwise for special procedures. The present of the present of the present of the line, the Stocks, the historical of the Sear Settleh, coastine, Dedham Valle and Thetford Chase. Other countrylated of his section quality for the present of the countrylated of his section quality.

include two tracts along the North Northic coastlines, the Broads, the Inlustrated of the East Spiriols, coastline, Detham Vells and Thetford Chase. Other coastline, Detham Vells and Thetford Chase. Other the Charles of the Spiriols of the Spiriols of the Charles of the Spiriols of the Spiriols of the Charles of the Spiriols of the Spiriols of the Charles (consistence with areas south of the regional boundary in Bedfordshine, Hertfoedshine of East), and a tree see of the A100 in East Surfolk and Hortfolk which adjoins the East Surfolk that Hortfolk which adjoins the East Surfolk and Unifolk that the Spiriols of the Spiriols of the Surfolk and Hortfolk which adjoins the East Surfolk and Unifolk for Inlustration of the Spiriols of the Spiriols of the Spiriols and Hortfolk which adjoins the East Surfolk and Unifolk for Inlustration of the Spiriols of the Spiriols of the Unifolk for Inlustration of the Spiriols of the Spiriols of the Unifolk for Inlustration of the Spiriols of

coastal resorts and top quality egricultural land.



114. We think it would be useful for the local planning authorities in the region to discuse common criteria by which areas may be designated as of 'Outstanding Landscape Value', as this would help in safeguarding visual amenity when future petterns of development and growth are being considered. In general, we think that amenity considerations should be given full weighting with other costs and benefits when considering new developments in the countrylide error. walking should be encouraged by improvements to the footpath network, but for motor treffic in leleure areas policy should be to ensure safety rather then speed end directness on country lanes. Visitors should be encouraged to walk into the countryside from selected pionic and perking sites. 115. Countal resorts south of the Haven Ports are elready becoming congested, and the East Anglia coastline will come under increasing pressure. We fael that leteral development along the operation should be controlled wherever possible in fevour of development inland from the coast, Meanwhile, there is a clear need for the meintenance of etringant policies for preserving the remaining un-

developed coastine and cliff-top paths between the Week and the Heven Ports, to prevent all forms of development which would be destinated to the Viseal and other amenities both servends and landwords. The Council fully supports the provision of long-distance coasts paths. We would be very concerned if proposels for new landful treatment plants for North See gas threatened the coastiful estill further.

110. Set Anglis stready derive conditionals to obtain a discovered from the holidary ratio. In Part II we discuss some sepactor of this easter. In Part II we discuss some sepactor of this easter. The filters development of this holidary trade and the filters development of the holidary trade and stream of the filters of the sepace stream of the set of the sepace stream of the set of

117. We now turn to possible planning sintegles for the region in the light of the schöling settlement serviculus, accelled an influentine receivements, and extractive, accelled an influentine receivements, and continued the scholing settlement of the scholing set

some other possibilities in the form of radial growth, trensverse growth and the new city concept.

Radial development from London 118, The South East Economic Pleaning Council in its report contamplicat the possibility of housing all the South East population increase between own and the and of the centry within possibility.

eround the pariphery of that region, meinly in corridors of development redisting from London slong mejor lines of transportation to lerge cities a oding as counter-megnets. 119. Two of the northward-resolving sectors

would impline on East Anglia. The first follows the A1 and the reliably line towers of Besteberousia, and A1 and the reliably line towers of Besteberousia, and if a settended would go through the western part of East Anglia and fish the two expending spows of St. Neods and Huntingdon and Godmechaster. These will from theedir of growth integritish souths ask of communications, and we believe that this development should be ancouraged.

120. The other radial sector follows the A12 and terminates at I psychic Any further development.

seminates at Ipsavich. Any further development along the A12 control (player) to could demage the largely unspolt coestal strip. Theoretically this scatter could be extended along the A140 end the squeet relievey line to a counter-magnet at Norwick, which could embreach the whole of the Norwick, which could embreach the whole of the Norwick, which could embreach counter-magnet at the South East Council's recognition of (psewish and Pestrborough as counter-magnets, the pastern of development within our

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*A Strengy for the South East, HWSQ 1967.

region should be determined by the structure and needs of East Anglia, and should not be ensirely based on lines of development leading back to

121. It was announced in March 1968, in response to A Strategy for this South East, thet a full-scale official planning study of South East. England would be ceried out. We wish to be fully associated with this planning study insofer as it affects East Anglis.

Transverse growth sectors
122. An alternative possibility is to apply the

growth sector concept visitors illigining this sector towards. London, Consignment could be excepted in one or more bands running roughly seas to were across the region. There are already the beginnings of a broad southern band of prowth extending from the strend from a dispixels through the expanding toward of Bury St. Edizundis, Newmarkst. Saidury and Haverish, through Cambridge and on Northamptones to Bridford, Million Keynes and Northamptones to Bridford, Million Keynes and Northamptones and southern southern shows this 23.3. To concentrate more development along this

band would further tilt the economic beliance of the region towards the south and west and could threater the annuity velac of the whole area. An alternative would be this creedion of a transverse sector across the nonthern part of the region sector across the nonthern part of the region roughly along the line of the A47. To be strategilally successful this would requize growth on a very substantial scale and we do not think this feesible or disabilitie in that part of the resion.

A Breckland oity 124. It is sometimes proposed that all additional

population in East Anglia should be concentrated in a large new oily. The usual auggestion is that this city should be sited in a braid of the relativity poor quality land of the Brackland area, separated from the aspending town of Thetford.

126. On general principles any new city is better located on poor quality land if other factors are

located on pocest quality land if other factors are equal, but a new city in the Breckland area runs against most of the current thinking on suitable new town locations. The area is thinly populated, armsrkably remote from large sectlements, and

would need substantial expenditure on new normmunications. Because of such natural disartum. taces development would be fer more costly than at an existing centre. A new city would have to rety entirely on the introduction of new mobile industry to provide its employment structure. It seems unlikely that with the limited emount of such industry available it would be ettracted to a site in this eree. It would elso destroy e lenge part of Thetford Forest and an area of unique natural interest, with serious consequences for simber supplies and for outdoor recreation emanities. 126. Curview is that such a new city could not be justified by the needs of the region. We doubt the wisdom of selecting a site for a new city enveybare in East Anglie. If there is to be moderate expension

in the Breckland eree it should be at Thatford.

127. The concept of city regions has been evolved

CITY REGIONS

in academic and planning circles in recent years out of the cleenical theories of the hierarchy of settlements, as an attempt to describe the rapidly chenging role of urban centres and the growing strength and complexity of the linkages within urben regions for employment, shopping, education, enterteinment end culturel fecilides. A city region is a geographical and functional unit of economic and social activity; an area within which the population look to e common centre for some pert of their employment and for certain services and feolities. Each city region has an individual structure end potentiel, increasing prosperity end improved mobility by means of the motor cer are extending the possibilities for social and economic interection between parts of a city region, particularly in making the city centre theoretically more eccessible to the population of its hinterland, while at the same time creating problems of congestion. These trends are expected to continue and intenelfy. There is therefore a need consciously to organise the relationships between communities in e city region, and plan the distribution of populetion, employment and the use of land to minimise costs and improve accessibility while protection the countryelds and the historical haritage of the

cities and lowers of the region.

123. In East Anglia the occept of only regions is perhaps easier to recognize then in eny of the other perhaps easier to recognize then in eny of the other cities of the region of the recognized that the relicivity small size of the mind roles end the recovered population in the firstly violescent outcoming season meet that, in correctation violence of the relicivity small size of the mind content of the relicity small size of the mind content of the relicity small size of the mind content of the relicity small size of the mind content of the relicity small size of the rel

126. Last Aligie code not posses a ringle commisting regional centre or conurbedion on the soale of, eay, Newcestle, Manchester or Bristol. The four main cides are of comperable size at present, and see likely to remain so even after the overpili schemes at Paterborough and Ipswich (and possibly Norwich) are completed, when their abuse

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will have grown to account the 200,000 mark in the senty 1880s. Nere of the four cities occupies a conveniently central location in the region. For these reaccess and because of the relative proximity of all four cities to Location in astropolism feelithers and services, the Council secommende that there should be no conscious plan to allevate one of always for the states of a "regional capital", elidough come specialisation of rotice will no doubt configure.

to develop.

130. The influence and attraction of Norwich, ipswich, Cembridge and Peterborough is exercised.

isowist. Cembridge and Psychocologis is accided in terms of dress to work, elooping, commected and profitational services, enterprisonment and accident and profitational services. A service of the profitation of the throughest data services are because the vertices are blummer and combinates all profitation or a make because the vertices are blummer and commercial to the profitation of the

131. Beyond the immodiste influences of the four main cities, there have developed three subsidies main cities, there have developed three subsidies town regions' of more than local significance, besend on the source of Kingle Lynn, Gentz Harmouth/Lowestoft and Bury St. Edmunds. The labour celebrane teres of these towns are well defined and do not ownlep the hinterland of the locur main cities or any eighticent extent.
132. The Council hee drawn certain initial conclusions:

e that four city regions exist in East Anglie in meeningful physical and economic plenning terms. They cover the whole region (and beyond) for certain expedition services and facilities, but in operational terms, perticularly

scillitist, but in operational terms, perticularly in terms of work and shopping, the see overed is much more restricted; but it is but the towns of Bury St. Edmunds, King's Lynn and Great Yermouth/Lowestyft rech have feitly independent operational standing within a form region', and these towns should be encouraged in attraction that role.

to help solve the problems of crees outside the direct influence of the cities; of that there are a few crees that its outside even these fown regions, and measures may have to be taken to build up a few additional minor

to be teken to build up a few additional minor growth points to revitalise these rural areas keeping in mind the wider linkeges with the towns and clies.

133. These propositions meen that all future

economic and physical planning decisions should be considered within the firemework of the individual city regions and their considered town regions, while beeing in mind the intra- and interregional linkages. This must apply to the years up to 1991 se well se beyond, as in the ordise parido major planning decisions will doubties present

themselves. 134. We recommend that full city regional studies

of present circumstances and future potential should be astablished in collaboration with all interested hodies to help evolve more detailed strategies. However we are advised that resources for such studies are source and it would not be possible for all four city regions to be studied at once. We therefore propose that the Cembridge and ipswich city regions should be tackled first, end that studies of the Norwich and Paterborough city regions should follow. Obviously the East Angile Consultative Committee and the local planning authorities will have views on priorities, and we will be consulting them and the Government so that further work is not deleved. Of the createst importance will be the Identification of those characteristics of each city region which are fevourable or unfavourable to aconomic growth. Questions arising will include: e the degree of concentration or dispensi of

- settlements, industry, amployment and services: h the functions of smeller towns:
- or the development of communications to allow
- efficiency of movement; of the links between the city regions and with other perts of the country, in particular the
- Industriel and commercial linkages: a the development of aprilouiture and the provision of leisura facilities. Local government re-organisation

135. In order to prevent any misunderstanding, it should be made glear that the city region structure which we have been discussing her been introduced purely for purposes of aconomic and social enalysis and policy formulation. We do not wish to pre-judge the report of the Royal Commission on Local Government at present examining the whole structure and function of local administration in England outside the London area.

136. The epproach to the economic and structure plenning of our region which we have adopted would clearly be consistent with the setablishment of administrative city regions based on Paterborough, Ipswich, Norwich and Cambridge, but in the mountime we hope that existing local authority boundarica will not inhibit co-operation in the synthesis of useful petterns of development. 137. The report of the Royal Commission is expected in the autumn of 1988, and any reforms eterming from it could not be proposed by the Government until there had been very full debate. Therefore it would be well into the '70s before sotual reforms could be enacted and implemented. although collaboration between ediscent authoritiss would no doubt prenade this

concept will require a lot more work and analysis. in the following four sections we draw attention to some of the me in lesuse which have so far ameroed from our discussions. The four official statistical sub-divisions of East Anglia, which are explained in Part II. Chapter 1, serve as a convenient five steps for the application of the city region concern to the region, and a great deal of statistical data are now becoming available for the sub-divisions. It is not suggested that their boundaries are approgrists for all purposes, and we recognise that more localised enalysis will be required for many lesuse and se part of the city region studies.

The Norwich sub-division 139. The Norwich sub-division is the largest in

land area and has a population of over half a million, over one-third of the population of the region. Nearly half the occulation lives in the main urban areas of Norwich, Great Yarmouth and Lowestoft: this triangle provides the industrial centre of gravity. The remaining population is widely disparsed throughout the sub-division, and some of these spersely populated areas have the highest unemployment levels in the region and the lowest income levels in the country. 140. The built-up area of Norwich has a popu-

lation of about 160,000 people, and is centrally located in the sub-division, with a wab of roads leading to all the smaller artifements. However, the preservation of the mediaval structure and the historic core of the city is a constraint on further concentric growth. It has been proposed that an overspill project for 30,000 Londoners should be established in the Norwich area, but this would depend among other things on local agreement about a pattern for growth. At the time of preparing this Study the Council understood that the County Borough was willing to undertake the scheme but that no appropriate area of residentially-zoned land existed within its boundary. A large centre with the many aconomic and social advantages of Norwich will clearly be attractive to industry and population. and we think that every encouragement should be given to Norwich to accommodate the overegild and thereby to supplement its industrial structure. We have instituted a cost/benefit research project of alternative settlement locations around Norwinh in collaboration with the local planning authorities, which we hope will establish the most beneficial pattern for population growth. The research will utilisethe results of the land-use and transportation study which the planning authorities are con-

141. One strategy problem which Norwich, Great Yamouth, Lowestoft and Indeed the whole subdivision faces is the difficulty of med normanications with London and with the Midlanda. The distances involved are axaggarated by the poor quality of the road links, which greatly extends Journay times

duction.

142. Norwich is based on engineering, food procassing and the shoe industry. The Great Yermouth /Lowestoft area with a population of over 100,000

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THE FOUR CITY REGIONS 138. We now attempt some preliminary commentary on the four city regions, but we must stress 22 that systematic application of the city region

provides employment in manufacturing industries. food processing, the holiday industry, fishing and boot-building. The future of the towns must be datermined in an area wider than the existing local authority boundaries-it must be assessed in relation to the Norwich city region as a whole. We are gled to know that the Ministry of Housing and Local Government has invited the three local planning authorities of Great Yarmouth, East Suffolk and Norfolk to examine jointly the Greet Yermouth/Lowestoft area, as we believe that such a study. If undertaken, would be a useful step in the consideration of these wider questions.

143. Another focus of development has been at Thatford, where the overspill scheme has been soundly based. The population of the town Itself has been growing steedily from 5,000 towards the target of 18,500 by 1971, and the town serves a large rurs! hinterland which extends into the other sub-divisions. As we have already stated, we support the proposal for further expension of the town. 144. Elsewhere in the aub-division there ere the

economic and social problems associated with the large number of smaller market towns in those rural crees which are outside the operational influence of the main urban centres. Over the long term the appropriate of town scale will lead to concentration of population and social capital in a smaller number of settlements having sufficient population and offering a wide anough range of services to anable them to provide the kind of living and work. ing conditions necessary for the future. We do not believe that industry can be attracted to a large selection of merket towns, or that it would be practical to expect any government assistance for soreeding development thinly throughout the wide interedoss between melor urben erese in all the sub-divisions. We have already said that we do not foresee induced population expension at further merket towns by means of overspill. We recommend that one or two employment sub-centres should be selected for concentration of future indigenous growth; these would need government

The Peterborough sub-division 145. The north-west sub-division largely com-

oriess the Fenland past basin. The city of Paterborough and the smaller centre of King's Lynn provide the main services and industrial employment opportunities. Their combined population represents about one-third of the 300,000 papple In the sub-division.

magnet to London, is designated a New Yown for a plenned intake of 70,000 pagols and will grow to about 170,000 by 1881. It has good north-south road and rall communications, but the links with the Midlande and eleo esetward, perticularly the A47, require urgent improvement. Peterborough is already a fairly wall-daysloped industrial area with e concentration of mechanical and electrical anginearing industries, including vehicle diesel engines. machine tooks and consumer durables. To the west lies on important area of brick production. On the other hand, amployment opportunities in the service industries ere not as diverse and numerous as in other cities of East Anglis, and other manufecturing industries with complementary labour demands will be needed. 147. In economic terms, the city region hinterland

extends into the East Midlanda Planning Region. We elreedy have an appreciation of the Paterborough aphere of Influence in the Consultent's Report on the expension of Paterborough *, and we understand that a special study group has been set up by the six county councils concerned. We would welcome the opportunity of learning move from them of their initial appraisal of this city region. We expect that the Master Plan for Pater. borough will also define the character of the city centre; the extent of its hinterland will depend very much on the quality and acope of its services and transport links. Cartain functions, perticularly in the service sector, will be concentrated in the urban core of Peterborough, but will need to serve a wide catchment eree. This will imply an effective road system within the city and considerable improve-

148. The towns of March, Wisbach and Chatteria are in the sohere of influence of Paterborough but on its operational parimeter, Plans for Paterborough and the city region should examine the possibility of relating these towns with the main expansion, as this would appear to be the best way of making use of their resources and potential. In the meantime. eithough oversoll development would not be practicable in these towns, their existing industries should be given every chance to grow to offeat the decline in amployment in traditional industries 149. The excending town of King's Lynn provides most of the employment and services for its own

residents and for its extensive hinterland, but it

ment to the major routes radiating from it.

looks to Paterborough, Norwich and Cambridge for certain specialised facilities, in regional planning terms King's Lynn is well situated for planned expension and we hope that every encouragement will continue to be given to enable it to reach its population target of 55,000 by 1981. We expect the town to provide increasing employment opportunities for a hinterland extending to Hunstanton In the north and to Downham Market in the south. One plenning problem of King's Lynn-end alsewhere-concerns the preservation of the historic buildings in the town centre consistent with their edeptation to current use to help maintein and

Improve the life of the town. 146. Paterborough, anylesped as a counter-150. Outside the urban areas, agriculture and horticultum era very intensive and provide the basin employment : the sub-division as a whole has the highest proportion of agricultural workers. Associsted with this is a developing food-processing industry, with canning, freezing and sugar best factories in several market towns.

^{*}Especialty of Priesborough HMSO 1868.

The Cambridge sub-division

151. The south-west sub-division is abstrace that Perial cit in the north and undulating chalk uplands in the south. Combindge is the main unber centre and occupies is eferly centrel position. Overspill schemes leve been agreed for Hustingdon and Godmenchester, St. Noos, Hevunhill, Mildenhill and Beredon record the adges of the sub-division, and at Newmerket which it as closer to Cambridge. Other local controls include by em Sc. Ives.

Other locel contrels include By end St. Ives. 152. About co-nifth of the population of the region lives in this sub-division; population has increed fester than in any other sub-division, portioularly in the last five years with the development of the town expansions edded to the Invest who they make the control to the

153. The population in the Cambridge Employment Exchange Area-which extends from seven to ten miles around the centre of the city and includes the immediate neckiese of villenses... contains nearly helf the sub-division's present population of 343,000, and there has been consistent growth of population and employment in this eres. Three facts of considerable significance for future plenning stend out; first, the consistently high level of employment; secondly, the merked predominance of a few melor industries in the manufecturing sector end the lerge numbers amployed in professional and paragral sarvices especially in the University, colleges and hospital : and thirdly, the overell concentration of amploymant at the city of Cembridge with some induced prowth recently at the edges of the sub-division The construction of M11 from London will add to the pressures for growth, which would be incressed if ultimetely Stansted were chosen as the third

London elmost 154. Future plenning in this sub-division should teka edventege of the important contribution that the numerous research and development activities In Combridge can make to the national economy. and of Cembridge's further potential as a regional centre for offices and professional services, shops, entertainment and cultural ectivities, and as an international centre for tourism and apariellet conferences. The major obstacles to this enomerhi eppear to us to be the immediate ambient of labour shortage, because population and housing growth have not kept page with growth in demend for labour; end the physical planning difficulties of preserving the erchitectural and historic environment.

156. The problems of lebour shortage may atem from the development plen "which was prepared when national population forecasts ware substantially below those currently accepted. The plan rightly elimed to preserve Cambridge as an initiative univestify only and market town as well as

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e regional centre. It took the view at that time then in order to do this it was necessary to stabilise the population of Cambridge City at about 100,000 end to provide for growth in the immediate hinterland by another 25,000 by 1974. Severe restrictions were applied on industrial growth and on the establishment of new shops and offices, and latterly a physical restriction in the form of a green belt has been tightly drawn around the city. Notwithstanding these policies, employment onportunities have grown substantially in comparison with other parts of the region, and these pressures for crowth are a clear sion of the attractiveness and economic advantages of the city to industry end commerce. 156. If the present restrictions on development in

106. If the present institution of networking must be faced in the present institution of the present in the faced in the present in the present in the post of the present in the present in the post of the present in 156,000, indeed the dawn just present present in the present in the present present present in the present in the present present plant above a capacity within the Exchange present plant the present and the present present plant the present present present plant present prese

be generated in and enough the city retire than in the outer country, but and development of distant villages and small covers seems to us to be lemmed of the country of t

for more posity if there were more houses for sale et lower prices and for latting : we believe the labour difficulties could be lessened by the adoption of appropriate housing polinies both by the city and the rural district councils. This would sess the movement of workers into the city and its vicinity from other parts of the region where work is less readily available. We realise that this would call for the adoption of parallel land use policies by the local planning authority, and we trust that the working group comprising the city and county authorities, the University and the Ministry of Housing and Local Government, who have been exemining the problem of the future size of Cambridge, will take up these points and bring forward in the very near future some recommendstions which will be evalishe for the city region study. We understand also that a land use and transportation study is in progress, and we hope the results will also be evallable for the wider study. 159. As to the nature of future employment expansion, we find that there is a demand from Cembridge University for a policy which would

permit the continued growth of industrial research end development activities connected with les scientific and technological work. More diversity of ectivity could help to sustain and stabilise the industrial structure of the city. Other regional activities and services should also be allowed to develop. It is essenced first, however, to ensure that there is sufficient housing to meet these

160. Looked at in the regional context, the Council considers that East Anglis connot afford to disregerd natural growth points and that in each city region the city should be strengthaned; in the cese of Cambridge the Council thinks this appares precticable without demaging the assthatic importance of the University and other histonic cross of the city, given agnetive seructural planning and environmentsi control.

The Ipswich sub-division 181. The population of the south-sest sub-

division is 371,000, of whom about two-fifths live in the urben eree of the mein city of Ipswich and in Bury St. Edmunds. There ere town expension schemes at Bury St. Edmunde and at Sudbury. 162. Ipswich lise on the southern periphery of the sub-division and its influence aimedy extends into north Essex, Like Paterborough, the town will be massively increased in size by new town development: the oppulation is expected to grow from 130,000 to 220,000 by 1981, and the draft Dasignetion Order has elready been leid. The Council accepted the main excommendations of the two mind the proximity of the competing expansion at reports by Shenkland, Cox and Associates on the expension of inswich+ and hones that the difficulties over the area for designation will soon be resolved so that planning for the expansion can begin. With increasing growth loswith can be expected to extrect a large number of voluntary immigrents, and we may need later to formulate a view of its ultimete deelrable eize; but even at this stops it is clear that Ipswich will dominate a wide eras and exercise a etrono anough influence over the south-exetern pert of the region to bring an *Expension of Iguarith, HMSO 1886, and Engineering Assoc. HMSO

effective city region into being without difficulty. 163. We have airsedy accepted the proposition of the South East Economic Planning Council for a sector of growth leading to loswich, and we arreswith the Council that loswich will be a counter. magnet to London. It seems likely that on incressing functional inter-action will devalor between south-sest Suffolk and north-east Essax, and we think that there might be a natural case for growth after 1981 in the wider Heven Ports/Colchester complex. We fully support the proposel that a study of the whole Heven Ports/Colchester eree should be carried out, and we urge that this study should be set up as soon as practicable. In order to take fully into account the amenity value of the surrounding countryside, the Stour Valley and the estusies. It would be edviseble to extend the boundaries of the study ered as much as possible. 164. The West Suffolk part of the sub-division focuses upon Bury St. Edmunds, which opert from its county administrative function has attracted a number of food-processing firms and is building up e complex of engineering firms, verying from sortcultural angineering to precision gamers work. Bury St. Edmunds is lergely self-contained in employment end shopping terms and acte se a service. centre for a large number of smaller settlements end some of the surrounding town expensions. The town is plenned to grow to 40,000 by 1981. Although it has been a successful oversoil town we think that the present tergets are probably the limits of planned expension competible with the character of this part of the region and bearing in

ipewich. 166. The sub-division siec includes the feet proveing port of Feilisstows: Stowmerket which is engaged principally in paint manufacture and general light engineering; and the Sudbury area where the old foundation of silk weaving and knitted febrics is supplemented by precision anginsering, pisetice and chemicals. There is some evidence of economic difficulty in parts of the north-east of this sub-division, and this area should be included in any review of the problems of ereas of below-everage growth in economic activity.

7 Programme for Future Work

166. The previous sections of Part I set out the mein conclusions which we have so far reached on population growth, employment prospects, location of industry policy, transport and communications, social services, leisure and amenities, and policy for population distribution. These conclusions and recommendations constitute a praliminary report on the first steps of our work. The next steps of the Council's work will be to follow up the recommendations and analysis in this Shudy on the following lines.

Consultation 167. The Council will consult local government

and other organizations in the region on the conclusions and recommendations contained in the Study. Some of the viswe expressed will also be of concern to local authorides in adjacent regions and to the other economic planning councils, and we hope to have discussions with them too. These talks will help us to develop further our ideas on

168. Meny of the recommendations for immediate action in Part I, Chapter 8, era addressed to the Government. The Study es a whole will be considered by Ministers, and we expect to be consuited on certain issues before a formel comprehensive reply is given by the Secretary of State for Economic Affairs.

City region studies 169. Full studies should be undertaken for each

of the four city regions. These must be interconnected and should be consistent with each other. They should deal not only with physical planning issues, but slee with sconomic and social considerations, such as the growth and distribution of people and jobs, the growth and location of industry and the level and composition of invastment, perdicularly in houses, roads and other forms of social capital.

170. The main burden of these exercises will fell on local authorities and the Planning Board, but we expect to perticipets ourselves and there are other interested organisations who should be invited to take part. The date and findings of subregional studies already in hand should be made Printed image digitised by the University of Southempton Library Digitisation Unit

evallable. We have recommended earlier that the studies for Cambridge and Ipswich need to be storted without delay. drawn attention to the problems confronting many

Market towns 171. In a number of places in this Study we have

of the merket towns in the region. We are clear that these will not be solved by any general policy of expension, or in the context of new oversnill achemes. New solutions will have to be found These would need to be axamined in the context of city region studies, but we propose to pay special attention to the aconomic and social prospects of market towns in consultation with local authorities and other bodies.

Industrial structure 172. An urgent task is to improve the renge and

reliability of our knowledge of the industrial structure and aconomic functioning of the region. Although the statistical data available are improving at present, we, like all planning councils, lack up-to-data information on many important aronomic and industrial indicators for the region; at present much of our information is subjective or incomplete. We shall continue to press for further improvements and, where serious gape remain, by to cover the more important of them by instituting research projects ourselves.

The overspill programme

173. There is a serious lack of published research on the operation of planned migration schemes. We intend to encourage work in this field in collaboration with local authorities, New Town corporations and government departments.

Social services

174. We have drawn attention to certain problems in the provision of social services in a region with such a widely scattered population. For example, provision on a per capita basis is, in real terms, far icce generous in our region than in, say, a single conurbation of a similar size. Also, aconomic provision of many services is becoming increasingly difficult in the small market towns and surrounding villages. We propose to institute a much closer examination of these problems,

Tourism

175. We intend to investigets the role which the tourist industry should play in the economic development of the region.

University links with industry

176. The Universities of Cembridge and East Anglia are important for developments within the

region in two ways. First, they can provide centres for the growth of research-based industry,

which is one of the kinds of inclustries development we believe the region should encourage. Secondly, they may be able to meet the special needs of industry and commerce in the region for menagement treining, refreeher courses and training in up-to-date research techniques. 177. We propose to discuss with these Universities

the ways in which such developments might best be encouraged.

8 Summary of Recommendations

178. We set out briefly below the main recommendations which are made in Part I. 179. We calculate that between 10,000 and

13,000 new menufecturing jobe for man will have to be brought into the expending towns between 1966 and 1971 to experience tabout demend from local industry; a further number of jobs will be needed in ereas showing unemployment and under-employment. Pers. 27.

180. For the period 1971 to 1981, close ottention

will have to be peld to the problems involved in finding jobs for very legal increases in lebour supply; approximately three-querters of the increase in men will be in the New and expending towns. Para. 22. 181. Present dispersize in income and sendend of

living cen only be allmineted by further increases in output per worker through higher investment over and above that required to create new jobs. Pers. 23.

182. Distribution of industry policy mass be finable and residue anough to permit these aims. After the Hust Committee has reported, the Government hould varied to policy ponerally, and Government though a residue to the committee of panding toward-operations at stronger structure.

and to reduce the need for mobile industry from London. Pares. 37—35. 183. At Peterborough end ipswich New Yowns the Development Corporations should be effectlytyl staffed to deal with questions of orderly industriel expension and bolance, and mempower meters. Pare. 36.

196. We are discussing with the South East Economic Phening Courcell in proposal that for sech major oversell scheme proposal of an interseptemental team responsable with the development corporations and local scheme for regular progress reviews. Phys. 37. 185. Oversell towns resolve second priority after Development Areas for films enviring out of the SLC ares: the second priority for oversell towns hould be extended to films in the User.

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Metropolitan Ares. Para. 38

196. The progress of smaller expansion schemes should be related more closely to the rate of actual

Job growth, which may well be slower than the potential size of housebuilding. Certain existing bown appraison schimes may vall need to be able to offer some axes possive inducements. Pars. 33. 197. We wish to be assured that at these points will be exemined in detail in a general enview of distribution of industry policy; we hope that will be some gracely so ean not to hold back development in the region. Pars. 40.

188. The Council recommends that the present control on office development should be lifted immediately. We also recommend that dispersal of government offices to the region should continue and increase. Page, 41–45

188. We secommend industrial training boards to take special measures to increase training and retraining in scale with regional forecasts of demand for skills. Apprenticeship training should be m-

for skills. Apprenticeship training should be reexamined with the particular problems of the region in mind. Pars. 47–50. 190. Employers' associations should give further mocuragement to group training schemes Pars. 62. 191. The considerable assistance given by the

Determinent of Engloyment and Productivity for relating for administration of the Industrial Productivity for relating for administration of the Industrial Production results greate and copilal greate. Production of the 152. We have already recommended to the Huntz Downsteen to Administration of the Industrial Downsteen to Administration of the Industrial Industrial Production of the Industrial Industrial Production of the Industrial The ceits of the product is small, but these should produce the Industrial Indu

133. Even if our recommendations on industrial policy and improvements to community or composition and improvements to the community of the property of the pr

increasing the overspill programme should be epproved, with the two exceptions of Norwich and Theflord, Paras. 62-64.

194. We have broadly eccepted an appreisal of the road requirements by 1981, which was prepared by the East Anglie Consultative Committee. Neither an east-west nor a north-south motorway is required before 1981, provided alternative Improvements are implemented. The total expenditure for improvements to rural trunk roads and other main urban roads and rural traffic routes, excluding the special provision for the New Towns at Ipewich end Paterborough, ought to be some two and e half to three times more than what seems likely according to present trendeend policies. Given the probable limits on the overall growth of public expanditure in the next deceds, it is clear that even if East Anglie's share in the netional road progremme is aubasentially increased, as we have recommended, it would be unrealistic to suppose that it will be possible to finance the whole of this programme. The region will have to face growing congestion both in urben centres and on major routee, end this will be a severe obstacle to

successful economic expansion. We propose:

e substantial increes in the finance-evaliable
from central and local government;

b that the Ministry of Transport end the local
authorities concerned should examine the

ecops for edjueting the belance of total roads expenditure eo ee to secure the maximum for the more urganify needed major improvements by ellocating proportionately less for other work;

work; o that when we have some clear indication of the probable finance sveileble, the Council should examine the priorities to be attached to different projects.

Peres: 86-83.

195. We would wish to be assured that the restriction imposed by the new Transport Bill upon the use of large popular whiches for lower of such

the use of large goods vehicles for journeys of over one hundred miles will not hemper East Anglies industry or fermens, or discourage firms from coming into the region. Pere. 86. 198. As we have become increedingly concerned about the gamulative effect of British Reliveys

proposed for the withdrawed of holikolacial passants greenvices, we recommend that all like already proposed for clower should be a reconcileded by the proposed for clower should be a reconcileded by the control of the control of the control of the control of the proposed for clower should be control of the side of the control of the control of the side of the control of the control of the side of the control of the control of the side of the control of the control of the side of the control of the control of the side of side side of side of side of side of side side

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facilities et each, Paras, 89 and 90.

198. Since the apparent teck of public interests in the limited adhered ordered may have to troot to the limited adouts/oral apportunities available in some rural ordered primary schools, rether appeal interess may have to bit taken to ensure that children estending chase schools are not at an educational disordenings. Young papeal in the region need agreed dall more characteristic to take full-time and part-time further adoutsfor no course from that footbase of the full-time and part-time further adoutsfor courses from that footbase or the full-time and part-time further adoutsfor no course from that footbase or the full-time and part-time further adoutsfor no course from that footbase or the full-time and part-time further adoutsfor to course from that footbase or the full-time and part-time further adoutsfor the full-time and part-time.

198. We have been disturbed by the Government's internation that the present list of polycominal internation that the present list of polycominal education and the present list of polycominal works and commenter may well justify the designation of the present of the present of industry and commenter may well justify the designation of the might establishment in the region est applywhenhit, end we would like to meshw an essurance that there will be an opportunity to review the position in not more than five years' time, Pres. 705.

time. Pars. 106.
200. We think it would be useful for the local planning euthorities in the region to cliacuse common others by which recommy be designed early Outstanding Lendacage Value*, as this would had in sefsylarating visual enemity when future patterns of development and growth are being considered. Pars. 114.

201. Lateral development elling the costelline should be controlled wherever possible lifetyout of development inlend from the coest. Meanwhile there is a clear need for the maintenance of entipera policies for preserving the remaining undeveloped coestine and cliff-top paths between the Wash and the Heven Ports is prevent ell forms of development which would be desimanted to the visual and other sementies on the result of the property of the control of the property of the control of the property of th

202. We have concluded that the netural and most beneficial form of growth in East Anglia would be a development of the city region concept, Our initial conclusions are:

landwards, Pers. 115.

• That four oily replane exist in East Anglis in meaningful physical and occoming joint ingering terms, around Korwich, Ipswich, Cembridge and Patrobocogab. They cover the vibro replan (and beyond) for cettin apocialism replan (and beyond) for cettin apocialism, particularly in terms of work and shopping, the area covered is much more restricted.

b That the towns of Bury St. Edmunds, King's Lynn and Great Yarmouth/Lowestott each have a fairly independent operational standing within a town replan, and these towns should be snoouseed to attempthen their role to halp solve the problems of areas outside the direct influence of the cities.
That there are a few areas that ill a catalida year.

these fown regions, and measures may have to be taken to build up a few additional minor growth points to revitatise these rural area keeping in mind the wider linkages with the towns and diles. These propositions meen that all future economic and physical plenning disclutions should be considered within the framework of the histidificial city regions and their consciouent town regions, while bearing in entitle the inter- and lather-regional life-space. We recommend that full city regions taudies of present circumstances and future potential should be established, starting with Cembridge and

ipewich. These studies must be interconnected and about be made consistent with each other. The diese and filonitipe of rub-regional studies streed, in herd should be made a valid bit. Pars. 178-134. 203. We wish to be fully securities with the fastscale official planning study of South East England amounted in Merch 1988, Insolate as the planning study affacts East Anglis. Pars. 121.

1 Some Characteristics of the Region

204. The East Anglie Economic Planning Ranion. comprises the five counties of Cembridgeshire end the lale of Ely, Huntington and Peterborough, Norfolk, East Suffolk and West Suffolk and covers 4,900 square miles, with compact dimensions not exceeding 90 miles from east to west and 70 miles from north to south. It is bounded on the north and east by the sea, with 150 miles of coast end estuary. East Angile has for long been recognised as a fairly distinct geographic region, though its suggested boundaries have varied somewhat according to the criteria adopted, and particularly to whether to include all the Fenlend*, Although north Essex has much in common with the Suffolks, it was not thought appropriate to make it part of the East Angile Planning Region because the more densely populated and feat-growing southern part of Essex lies within London's orbit, and in all but one case the economic planning regions followed administrative county boundaries. The adjoining East Midlands Planning Ragion shares with East Anglia, inter alle, the Fenland, the brick-clay balt and the hinterland of Paterborough.

Physical structure

206. The surface relief of the region reflects the nature of its rocks and their disposition. The solid stress dip gamby to the aset and are pertly overlain by more recent glocial, thurst and seturatine deposits and past. The softer rocks, such as clays.

have produced low, fist ground; those more resistant to arosion, like the chelk, stand up as ridges and seceptiments. The physical divisions of the area are shown in Figure 4. 206. The fist awa of the Fene is formed by

geologically recent alls and pasts resting on Jureseto clays. The allstands border the Week, and the peet fans, now legally desined, form the surfice further inland. 207. The Hunstingdon Plain area is likewise molnly underlein by Jureseto clays, other capped by glatelle boulder clay. The boundary between

The divisions suggested by C. B Percent in The Provinces of Explority Provinces of Explority Provinces, new action 1995; Individual as East Angle very strong to the transport Exponent Percent Floration Floration Real Sci. Co. 10 Co.

this area and the Fana is not sharp: Telecoid of higher ground standing above the peet fena are formed of these ground standing above the peet fena are formed of these land of the standing and in the toward standing and the sta

erodate by the whot. The plecially formed Conner Ridge of north. Norfolk consiste of gravity deposits riding to over 200 feet. 200. The Eet Anglass Pistess is underlein everywhere by the chisik, which is covered in the east by the shirtly gravite callels the Creag. The whole is masked accessively by glacific deposits of boulder city, and and graves, which give the sare in writery of surface form. The Broads are is the dark of the contract of the contract of the contract of security the contract of the contract of the contract of security the lower Blass and city of the contract of the security the lower Blass and city.

210. The ennuel reinfall avarages between 21

and 28 inches and is one of the lowest in the country. Compared with the national everage, the region also experiences algnificently more sunshins hours, warmer aumment and colder winters.

East Anglia's strategic situation 211. Since the time of the industrial Revolution.

in which it took little direct part as a consequence of its lock of coal and lone, East anglia has been generally regarded as collegue to and every from communities in its councer, brought in the feathers of agricultural progress. The situation along the communities of its the councy, though in the feathers of agricultural progress. The situation along the charge before the second visual visual segments of the progress of the control of

A and B of Figure 5. The following factors are important:

wit foot read, wild merit.

a Proximity to London, which is only 40–120

Proximity made displaced by the Linversity of Southempton Library Displaced Interest.



Fig. 4 Physical structur

miles from any point in the region; the Outer Metropoliton Area touches pert of the southern boundary b Ste trade with Europe is one of the 'growth

b Sise brads with Europe is one of the 'growth sectors' of Britein's foreign trade. East Anglis's ports, though email, see well placed to serve this trade, and in the past five years their growth has been very swift. The newart

techniques of containare and roll-on/roll-off are already being employed.

o The constitute parts of Tibbury and Harwich and the proposed Channel Tannel will not be in the region, but they will be close enough to be of use to lises Anglio's industry and commence.

d Major North See par (Major Nee of the region) are coest and thair downlowment here brought nave industrial extivity to the region in the servating of the drilling pletforms and the laying of pipplines inland from the coestal terminal. A third international Alphor to the north or north-east of London would provide freight and passerage services and income. East

Anglis's growth prospects. Statistical sub-divisions of the

region
213. Statistical information about the region as a whole, which is gredually becoming more junctiful; is self-uisting compenients with other region and with the country is general. But much of our "limit Americal Paperal Buddes, bis. 1-4 1995."

The Americal Paperal Buddes, bis. 1-4 1995.

The Country of the Country of Country of Country of the Country of the Statistics over the Country of the Statistics of the Country of th

future work will involve analysis of the soonomic characteristics of small areas, for which madymade data are often lacking. In enswer to a central government request for advice on an area breakdown of the planning regions for statistical purposes, we recommended that our region should be divided into four statistical aub-divisions based on the main centres. The sub-divisional boundaries shown in Figure 6 srs, insvitably, a compromise between aconomic realities, statistical convenience and local authority boundaries, but they do take into account distance and travel time to the centres and the balance of population distribution. The aub-divisional boundaries cross county boundaries but follow (for statistical convenience) county clistrict boundaries. The constituent parts of the sub-divisions are detailed in Appendices 1 and 2.

Arece of influence of urban centres 214. In terms of area of influence, the hierarchy of aetilements in East Anglia is heeded by the four major urban centres of Norwich, Ipswich,

four mijor urban centrae of Norwich, Ipswindor Cembridge and Psetschorough, and the bree melor urban centrae of Bury St. Edmunds, Kinge Lynn and Great Yermouth/Lowstofff, Each of these centrae searce a separete economic and social orisection over the population of surrounding area in respect of travel-to-work, shopping, social services and settatellement. Much remains to be services and settatellement. Much remains to be

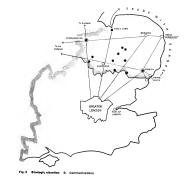
consider Sergoph of Leveston, but for the purpose of this seed my have been considered as a shall usban name.



Fig. 8 Stretegic altuation A. Population

done to measure the extent and strangth of these inter-relationship, but on the bester of our perliminery studies we believe that travel-to-work posteron provide one of the best guides to a certain extension of the period of the would seem the other indicators and to confirm the findings obselfand from travel-to-work manipules. Travel-to-work data are periodicity *56 Feet Committee, as part dynamical familiar for the first Committee, as part dynamical familiar *56 Feet Committee, as part dynamical familiar to *56 Feet Committee, as part dynamical fa useful as they are available from the population censuses over a long period of years and cover all local authorities.

216. The travel-to-work mape∑in the pocket (Mep 3) and the commentary and table at Appandix 3 are based mainly on patiminary results from the 10 per cant sample 1966 population cansus and the 1951 population cansus.





Overspill Programme

216. The home population of East Analis at mid-1966 * was estimated to be 1,582,000, or 3-3 per cent of the population of England and Wales. This is the smallest population of any region (see Floure 7).

217. There are two special alamants in the regional population attracture face Table 11. One is the 27,000 members of the United Kingdom and USA armed forces, representing 1 - 7 per cent of the population, a higher proportion then in any other

Population structure

ried. The year 1666 is used in the Body or the bear year as the official qualitative projections can from 1866 to 1886. Population figures for INT on allows or Assemblers 2 and

motion. The other is the 11,000 students of the two universities. The disproportionately these number of men in the 15-44 age group in these categories reduces the percentages attributed to the other proups. Otherwise the structure of the regional population is not significantly different from that of England and Wates, except that the region has a somewhat higher than average proportion of ned people, perticularly in the eastern half. The morthsest sub-division has the most elderly structure

(see Appendix 5) Fast Applia's population in mission to England and Wales is shown at 218 The regional birth rate of 16 6 per thousand shown in Table 2 was nearly 6 per cent below the national rate. This was partly attributable to the

TABLE 1 Population structure by ege and sex mid-1966*

		East Apple	% total population				
	l	Enet Angle 1000	East Anglia	England and Wales			
Purons	0-4 5-14	126 222	8 1 14 0	8 7 14 3			
Males	15-19 20-44 45-64 85+	67 276 184 88	17 4 11 6 8 4	3 9 16 3 12 0 4 7			
Feccults	15-19 20-44 45-59 80+	61 241 148 174	3 8 16 2 6 2 11 0	3 8 16 8 8 8 10 7			
Al'ager		1,882	100	100			

Wigures are regarded and may ago and to break

TARIF 2

Live births occurring in 1966

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	East Anglie	England and Wales
Birthe	28,338	845.823
Home population, all ages Birthe per thousand	1,582,000 18 8	49,078,000 17 · 7
Home population, famales 15-44	302,000	8.423.000

A. Population, area, density 1969



South East North West West Midlerels Yorks & Humberside South West Northern East Midlende EAST ANGLIA

South Feet South Wast Northern Yorks & Humbereids West Midlands EAST ANGLIA Eret Midlande North West

GROSS POPULATION DENSITY Yorks & Humbarelda

South West EAST ANGLIA

North Wast South East West Midlende

East Midlende Northern

South East Northern

	POPULATION INC							
1951-1966	PERSONAL ROAD	•	1966-1991					
		٩_		. 7	11	20	- 98	
-	EAST ANGUA	100	2000	93200	9000	(2000)	2000	
	East Midlenda		_		_	7		
	South West				7			
	West Midlenda				╗			
	North West		_	7				
	Yorks & Humberelde			===				

English Flanning Regions

peculier population structure. If births are related to the number of females between the signs of 15 and 44, then the regional birth rate was only 3 per cent below the netional rate.

Population distribution and ssttlemant pattern

219. The distribution of population densities eccording to the 1966 population cansus is shown et Figure 8. The overeil population density of East Anglis-only 0.5 persons per ecre-ie the lowest of any region in the country. The renge of densities runs from nil in five perishes to 15 persons per ecre in Norwich. There is no very merked pettern to the distribution of densities. Each sub-division has some exemples of true urban density (over 4 persons per ecre) and many perishes have less

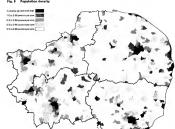
then 0.2 persons per ecre. in the more then one thousand villeges with a 220. The distribution of settlements by size* in each sub-division is shown at Figure 9, and the

geographical distribution of the larger settlements

ris exercised in 1.247, ensuring 1.638,000

is shown at Figure 10. There is no large urben mass in the region. The lorgest settlement† is Norwich with a population of 160,000, followed by Inswich (129.000) Yermouth/Lowestoft (113.000) Combridge (105 000) and Peterborough (81 000) : these settlements together contain 38 per cent of the region's population. Thereefter there is a very merked drop to the settlements in the 20,000-30,000 group, i.e. King's Lynn (30,000) Wisbech (29,000) Bury St. Edmunds (23,000) and Felixstowe (21,000), in the 10,000-20,000 group there ere Huntingdon (17,000) Merch (13,000) Sher-Ingham-Cromer (12,000) Newmerket (12,000) St. Neots (11,000) and Sudbury (11,000), These places (including the main sattlements) comprise 50 per cent of the population. A further 25 per cent of the population lives in the small market towns and larger villages, and the remaining 25 per cent

population of less than one thousand persons. †The population attributed in the larger setflements is that of the more or less continuously built up area, while! prediw setflements are squared with opinibe; the positivitie is in terms of private household projection.



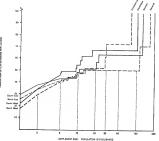


Fig. 9 Cumulative distribution of auh-divisional population 1000

221. As can be seen from Figure 8 the regional pattern is broadly meintained in the sub-divisions. Each is dominated by a large estiments, hee few settlements with over 10,000 population, and 42–48 per cent of the population live in actionments of less than 5,000 persons.

Recent population trends*
222. It is convenient to recent the recent cost as

East Angile growth rate in relation to England and

*Mid-year autinuise of the home population.

covering the filtran years 1951-96, thus facilitating comperison with the following fifteen years 1965-97. Since 1951 East Angille has hed the fatter regional growth of population (see Figure 7). In the filter equirquencium, 1961-96, the population was provided as a fatter regional population was provided as a fatter following the population of finglind and Virlais. By the their the population of finglind and Virlais By the their things of the first population of finglind and Virlais By the their things of the first population of finglind and Virlais By the growth following the first population of finglind and Virlais By the first population of finglind and Virlais By the first population of findling and the first population of findling and the first population of findling and findling and first population of first population of findling and first population of first

TABLE 3 Estimated changes in home population

	1901-66	1966-61	1981-46
Enet Anglia Inortases in number of people	31,200	88,100	92,700
East Anglia increases as percentages	2-2	4-8	6-2
England and Wales Increases as percentages	1-9	3.4	4-0

Wales growth rate

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39



the fifteen years, nearly helf occurred in the last five-yeer period in solts of a reduction of 12,000 in the ermed forces (see Appendix 6 for details). 224. An important element in the growth of populetion has been netural increase. It has risen from 29,000 in 1951-58 to 41,000 in 1961-65. Another contributory fector has been the planned migration of Londoners to the expending towns, which began in a small way in the second period and lad to the movement of 13,500 in the third period. But the mejor factor in the ecceleration of growth has undoubtedly been voluntary migration which was negligible in the first period, but which emounted to e net gain of 47,000 in the third period. Eest Angile ettracted migration at a higher rate than any other region in the five yeers up to mid-1996. Indeed, as the Registrer-General has said, if there is a population 'drift' within England and Wales it is a drift to East Angila and the South West. 225. The incidence of change varied over the four

sub-divisions. In the period 1961-95 the southwest sub-division showed the greatest population incresse both reletively and absolutely-a rise of 33,000 or 11 per cent; the impect of town expension schemes was greatest here and coincided with a relatively small reduction in the armed forces. The least growth was recorded in the northwest sub-division-12,000 or 4 per cent; voluntary migration was low, there was little population movement to expending towns and there was a

substantiel drop in the ermed formes

226. Although town expansion schemes were not a major fector in the growth of the region's population, they had considerable local impact. especially in the southern part of Huntingdon and Peterborough and In West Suffolk. 227. Map 2 (in the pocket) shows local changes

Local population changes

In private household population in two periods. 1961-61 and 1961-66*. Carrying the enalysis down to parish leval discloses the patterns of change which ere quite obscured by the use of data relating to the very extensive rural districts of East Anglia. About helf the population of the region lives in the 1,266 rural parishes; about three-quarters of the parishes have fewer than 600 Inhebitents

229. The increase in population in rural parlehes averaged 5,000 a year between 1951 and 1961, but in the next five years, 1961-66, the increase averaged over 10,000 a year. Consequently the proportion of declining parishes dropped, from three-fifths to two-fifths, and the proportion of parishes showing substantial growth more than

doubled-to reach one-third. 229. The parishes which showed substantial dacrease were widely dispersed over the region in both periods and were mostly remote from the

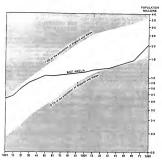


Fig. 17 East Anglie's population as a proportion of England and Wales 1801-1861

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major towns. Périshes wécid showed a subsanish indireses boxwan 1861 and 1981 verse generally dispersed, but there were some concentrations, otherly in the Certhodige serve, and to a lesser that period 1981–68 the periods with subsanish growth were more numerous. They site allowed a greater degree of concentration, especially enough committee, and also also give the subsanish and site of the subsanish and

mental, end the AA7 from Norwish to Great Yermoush.
230. The forecast of a fusice population of over
230. The forecast of a fusice population of over
Figure 11, was proposed by the General Register
proposed to the General Register
Committee (GACC) which puts forever a 1881 population
proposed by the General Register
Reg

not only because it takes epocific account of international migration movements and is consistent with forecase for other regions of England and Wales, but more especially because we consider it corresponds to a more filely rate of employment growth. Even if the growth of population should

TABLE 4 Future population growth 1966-81

	1000
Home population mid-1955	1,662
Netural increes of mic-1985 population Net population movement from outside the	122
region: to New end expending towns	225
	40
Natural Increase of net population movement	39

The two forecasts are compared in datall in Appendix 7. The Council has docided to adopt the GRO projection as the working beeis for the Study, Jacobs description of the Study,

4

2,005

turn out to be as great as the EACC forecasts, the strategy described in Pert i is sufficiently flexible to accommodate it.

231. The movement of people to the New and expending towns is by for the more important factor in this growth of East Angilis' population up and a second property of the provided of East Angilis' population up will come from Landon, but some people are size expected to come from other perit of the copies are size and from other perices within the region. Because and from other prices within the region because the first people are size and took younger people, movement on this resident with the provided of the provided property of the provided provided property of the provided provi

the sub-divisions where the most proveth is fore-

cast are those which contain the major expension

schames of ipswich and Paterborough. The least

growth is expected in the North East sub-division, but even so the rete of growth is above the average for England and Wales.

THE OVERSPILL PROGRAMME

Town expansion
233. In the years following the pessing of the
1952 Town Development Act a number of local
1952 Town Development Act a number of local
town of the person of the person of the person
houses for Londonen. These the providing seasons
houses for Londonen. These respectively the
present town development programme grew
the present town development programme grew
up from the sum of the decisions of local authorites. Ten now have suprements with this Greeke
Les Town the present town the the decisions of local authorites. Ten now have suprements with this Greeke
Les Town the present the pr

TABLE 5
Change in age structure 1966-81
East Anglia and England and Wales compared

		Popular	(000) noi	% Change 1956-81			
Age group	East Ang	ila.	England	and Wales	East Anglia	England and Water	
	1865	1981	1966	1861			
Parsons 0-4	126	156	4,167	4.746	+45	+14	
Parsons 5-14	222	334	6,590	6,763	+50	+28	
Melas 15-44	342	420	9,709	10,771	123	+11	
Famalas 15-64	302	388	9,423	10,443	+32	111	
Males 46-54	184	211	6,771	5,631	+15	,	
Females 46-68	146	159	4,734	4.324	+15	- 9	
Males 55 +	85	101	2,245	2.541	+20	+27	
Fornelas 60 +	174	158	6,135	5.044	+ 9	114	
All ages	1,582	2,008	48.075	53,383	+27	+11	

TABLE 6

Population g	rowth	1966-81	by	sub-divisions*

Sub-division	Popular	lon 1000	Increase 1968-61		
	1985 1981		Number '000	*	
North East	567	654	87	16	
South East	371	603	132	36	
South Wast	343	433	80	26	
North Wast	301	417	115	39	
East Angla	1.692	2,006	425	27	

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Source: General Register Office.



These operations provide for the building of more than 22,000 houses, sufficient for more than 72,000 people, in the period up to 1881, At mid-107, 672 because hid been complexed, and the majority of the atherman are listly to be finished more than 100 to 100 people. The third than 100 people will be the sufficient of the atherman are listly to be finished in the sufficient of the majority of the atherman are listly to be finished and 1500-though the limiting dependence on the rate of industrial development and the general growth of simplicyment. The atherman ore listed in Appendix 8 and progress to date is shown in Figure 12.

234. The scheme at Herwill (West Spffot) is flashy to be samented to accommoder 6 synthem 5,000 Londoness, and 6 larger extension at Tractord (Horolds) is a possibility. A proposed for housing 30,000 Londoness ot Novulón would, we underseand, be expensible in certain chromatiness to the City Council. A possible estimate of the moment of ploopies who might be housed an ammitter of ploopies who might be housed and Anglia us to 1881 could be about 50,000 more than the 75,000 cities above.

New Towns

236. In 1985 the Government ennounced like intention of promoting major expensions. Peterborough and jawwich under the 1985 New Towns Act, and seudles by consultants were made. Peterborough has been designated a New Town and the Peterborough Development Corporation.

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appointed. The dreft Designation Order for previoth has been published and the results of a local inquiry into objections are awaited. 235. It is proposed to provide homes, jobs and other fecilities for 70,000 people, mostly Londonnes, in sech town by 1981. It is expected that by the and of the pentury. Peterhoroush will have.

other fecilities for 70,000 people, mostly Londones, in each town by 1981. It is expected that dones, in each town by 1981. It is expected that by the and of the century, Peterborough will have a population of about 200,000 and (pawide about 200,000. 237. Those towns were salected for planned gowth on a lerge scale because they ere fer

growth on a large scale because they see fer anough every from the London counterboin to ensure that the aspending communities will have a new and independent fille of their own, and they to the prosperity of the region, in addition, both as motive bown with an inhabit potential for further indownful and communities to the training good external communities are all residually good external communities and are marked by good external communities and anough and marked and office development.

238. A high rese of housebuilding will be required to austian the inteles programms and them will be need to release it cleanly to the creation of new jobs, adding both from existing earl incoming firms. The social integration of new citizens and old will stone to state last. To seatest this process, it is hoped that through common management of public housing the present juilbellions will be able to live

side by side with the newcomers from the start. both in the expansion erees end in the existing towns. The eim to provide for 50 per cent of the new houses to be owner-occupied should also

between 1966 and 1981 for a quarter of a million people in expansion schemes under the New Towns and Town Davelopment Acts. Much the greater proportion is expected to come from London, which means that the region will be contri-

help to establish more belienced communities then in earlier New Towns. buting directly end on a big scale to reducing con-239. In total, East Anglie is likely to provide homes gested housing conditions in Greater London.

3 Employment and Industry

SUPPLY OF LABOUR AND EMPLOYMENT STRUCTURE in 1966

Supply of labour 240. Table 7 shows the numbers of employees (including the unemployed) in 1988 as estimated

the characteristic properties of the control of the characteristic properties and Properties and

people in celt various who to leave activo netter active than the everage.

241. The number of employees in employment in June 1886 was 600,000. The region has an unusually large proportion of eith-employed because it has e high level of activity in egiculture.

hardinature, hostel and ostarina, plus a normal share of small beurianzee in distribution, po-fessional servicas, act. The 1969 population ensured in the policy of the policy of the policy of whom 45,000 west malas. As a proportion, the satisfaction of the policy of t

Employment structure 1966; 242. The broad employment structure of East

Angile compreed with thet of England and Weller las displayed graphicely in Figure 13, end more detailed comparison by Standard Industrial Clean-fiscation Oxder lagiven in Figure 14 and Appendix 9, 243. There are some industrial where significantly the Industrial Englandary Comparison of the Industrial Englandary Compared excess to the region as whole is given in

approved Co.

TABLE 7 Employee totals 1966*

Miles	Number '000	×	Sogland and Water
15-18 20-44 45-64 65 +	41 200 150 12	10 80 97 3	10 50 36 3
15+	403	100	100
Facculus 15-19 20-44 45-59 00+	80 87 81 12	19 45 29 6	17 47 30 7
15+	211	100	100

*See Stossey, Figures are rounded and may not add to totals.

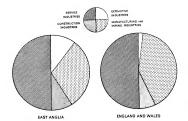


Fig. 13 Employment structure by eactors, 1936: East Anglia and England and Wales

more than the national proportion are employed, such as egriculture; food, drink and tobecco; timber and furniture; and construction. The group of industries which does approximate to the national pattern includes most of the service industries, and certain manufacturing industriesclothing and footwear, peper and printing. engineering and electrical goods. There is a group of industrial orders where a significantly smaller proportion is employed. These ere mostly manufecturing orders-shipbuilding; bricks, pottery, place, gement, etc.; chemicals; vehicles-and one importent service-insurance, benking and finance -which is concentrated in London. Finelly, there are several industries which are totally or virtually absent from the region. These include metal menufecture, textiles, metal goods (es distinct

244. In 1985 East Anglis had a lower proportion of employed labour resources engaged in membrate them to manures engaged in membrate them to make the manure services and the second that the

from engineering) and coelmining-

245. The proportion of employees in the service industries is about everage. The proportion in manufacturing and services was increasing be-

tween 1961 and 1996, while that in agricultura was falling sherply.

246 Most of the industries showing national

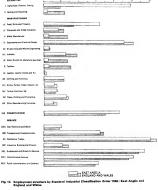
246. Most of the industries showing nistonal decline in amployment, such as coalmining, shipbuilding and sextiles, have proportionately low numbers of amployees in East Anglie or era absent from the region. The one industry in East Anglis

that is shrinking in employment terms—agricultura —is in other respects a growth industry.

EMPLOYMENT CHANGE 1961-67 247. Table 8 Illustrates the changes in numbers

of employees in employment that have taken piles of between 1981 and 1967. While there has been an overall upward movement both in mails and femile employment, it can be seen that provide here to be the mail to be the companion of the companion

248. When employment date are broken down geographically into the statistical sub-divisions (Table 9) end expressed as percentage changes. When the template of the statistical growth in the region over the period 1961–69 has been of similar proportions in each of the four sub-division, although the North West has a marginal fixed over the other there, i.e. 11-9 per cent charge as compared with 10-7 per cent in the South Next. 0-0 per cent in the South Sext.



47

end 9-9 per cent in the North East. Secondly, famale employment in the region has expended at roughly twice the male rete. Acein, this is equelly the case in the sub-divisions except in the North West, where female employment growth has been three times as great as for males. 249. The ber diagrams in Figure 15 and Appendix

11 illustrate the amployment changes by industrial order between 1961 and 1966. The most merked absolute changes have been the decline in agriculture, forestry end fishing, and the gains to angineering and electrical manufacture, and professional and scientific services. Appendices 15 to 18 give detailed statistics on industry in the sub-divisions.

UNEMPLOYMENT Unemployment experience 1962-67

250. Unamployment rates for East Anglie as a TABLE 8 Employment change 1961-67

whole have been fairly close to national retas in recent years; above those of the South East Region but lower than most of the other regions. Table 10 shows that these overall East Anglie rates have been made up of higher rates in the North East end North West sub-divisions end lower rates in the South East and South West subdivisions. The ebsolute numbers of unemployed in the whole region have ranged between the winter meximum of 26,621 in 1963 and the summer minimum of 5,415 in 1965 251. Examination of the period 1962-67 indicates a fairly consistent pettern of movement in all the

sub-divisions. The 'winter meximum' figures show a falling trend from 1962 to 1965 (Interrupted only by the unusuelly bad weether in 1963), a levalling-off in 1965-66 and e sudden rise in 1965-67 to a point a little higher than the 1962 figures. The 'summer minimum' figures show a

similar pattern.

	Meles		Per	nelee	Total		
	Employees	Change	Employees	Change	Employees	Change	
1961	373-2		193-8	1	657 0	1	
1962	381 - 7	+8-6	191-9	+8-1	873-6	116-6	
1863	384-6	+3-1	184-6	+2-8	878 6	+ 6-0	
1964	366-6	+4-8	201 -1	+6-3	680-7	+11-1	
1986	399-2	0-4	208-7	j-7-6	697 - 9	+ 7-2	
1966	398 - 2	19-0	210-4	+1.7	608-6	+10-7	
1967	305-4	-2-6	210-2	-0.2	606-6	- 3.0	

TABLE 9 Employment change 1961-66*: East Anglia sub-divisions												
	North East eub-division		North West eub-division		South East exh-division			South West sub-division				
	Males	Females	Tools	Males	females.	Totale	Meles	Females	Totale	Moles	Fameles	Tecels
1901	131 -8	69-9	201-8	88-2	29.5	97-7	84-1	37 - 2	121 - 3	87 - 7	36 - 2	103-9
1966	142-7	79-0	221-7	73-2	38-0	109-3	85-8	43-6	133-6	73-2	41 - 8	118-0
Chenge	+10-9	+9-1	+18-9	+8 0	+8.6	+11-6	+ 6 - 6	-18-4	+12-2	+ 6 - 6	16-8	+11-1
% Change	6-3	13-0	9-3	7:3	22.0	11.9	6.9	17-2	10-0	8-1	16-8	10-7

eguly-distaloral authorities for 1057 not evalishin at time of going to press. Description Consistency of Employment and Productivity.

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	1962	41
		White nac
	1964	Summer
	2	Whether
		Summer mm.
62-67*	1963	Wireter max.
nglia 19	1962	Summer
East A	19	Wester paix.
E 10 nployment, East Anglia 1962-67*		

2001

-	1-3	693
1166	0.0	424

2	693	
	1	



5,570

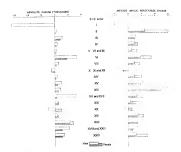


Fig. 16. Employment change 1961-66 (employment)

252. The higher 1987 unemployment retes are entributeble to the successive defletionery measures. The gen between winter end summer unemployment levels has narrowed; the summer minime have risen more sharply than the winter movime, pertinularly in the South Fast and the North West sub-divisions. These results refer, of course, to a single year only, and a run of years will be necessary before reaching firm conclusions.

Labour reserve 253. In October 1967 the Council certied out e sample europy of the unemployed register in the region. On the basis of this an estimate of the lebour reserve has been made. It is hoped to publish a full account of the survey leter in 1968. 254. Becouse unemployment retes include e number of persons who are very difficult to employ. they do not give on accurete indication of the size of the lebour reserve in an area. The lebour reserve contains the people on the register who would be in employment if there were adequate and suitable opportunities. Both the 1984 Netional Survey of the Cherecteristics of the Unemployed* and 1967 East Anglie Survey (not published) made on attempt to estimete the reserve based on the opinion of employment exchange managers. In

*Published in the Minkey of Labour Gueste, April 1900

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17 per cent of the semple would have been in employment but for the leck of local opportunity: In 1967 in Fest Applie the figure was 20 per cent. It is difficult to make comparisons over time, but It seems that on the subjective criterion used, the labour reserves in Great Britain and East Anglia were broadly similar proportions of the unemployed registerent.

Greet Britein in 1964 managers estimated that

265. There is, however, a need for a more objective measure, because subjective assessments will very from locality to locality. We have therefore colculated a labour reserve rate on the basis of Survey date by excluding from the total unemployed those out of work for less then one month and certain clearly defined groups whose employment prospects are known to be markedly less good than those of the mejority of registrents. It is not suggested that any of these letter registrents is completely unemployable, nor that the Department of Employment and Productivity has in any sense given up its efforts to place them in employment. Nevertheless, it has to be food that their prospects ere not as good as those of the everege, fit, younger registrent end that no employer could possibly requit for a new establish-

women-who would become evaluate it there were apportunity

Labour reserve rates October 1967

	Total employees* No.	Whally usemployed No.	Uremplayment rate %	Labeur reastrea reto %
Sest Anglie	619,000	10,810	1-8	0.6
Northern exchanges?	67,000	2,270	2-3	0-6
Great Yermouth and Lowestoft	61,000	1,770	2-9	1-1

- Aus 100 distance of empirican in manifement, implies with Qualities 1803 name(played file entries at 6 empirican in empirican file and the contract of empirican file empirican file and the file of the empirican file empirican fil

ment a sibour force which consisted wholly or married year. Despite, The isbour search has therefore been defined as the unremotived persons: (a) those unremptived for these then one motifs, (b) the 60 -- (c) the 58 ft who were registered for client work. (b) the despite of these with a visit of the things of the control of the basis who is the control of the control of the has been decidentated, for the control of the the control of the control of the control of the the control of the control of the control of the the control of the control of the control of the the control of the control of the control of the the control of the control of the control of the the control of the the control of the control of the control of the control of the the control of the c

286. Labour reserve stass for both the northern sechanges and Greet Yermounts and Lowestife see above the rate for less Anglis. The difference between the two areas in the region may be appliend by seasons factors: the holiday season would have fleshed in Greet Yarmouth and Lowestort in September, but in the northern exchanges the seasons identified for or discour would statill be high.

Future levels of unemployment 237. For purpose of estimating Jubure libour supply in presentation 246 and 301-308, the unemployed is counted with employees in employment. Unemployment in Julia "Europhyses in comployment. Unemployment in Julia" Europhyses (or livel, in Justice; 1668) it was neetly 14,000. Although this letter figure is unusually high for mescenial end cyclotic reasons, the Government's policy for the future makes it writinally that the proportion of the loss loss of 600 in the mest.

FUTURE SUPPLY OF LABOUR 1971 and 1981

Activity retee*
258. Activity rates are a radio between the number of employees in employment plus the unemployed

or employees in employment plus the unemployees and the home population aged 15 or over. East Anglie's ectivity rates ere lower than national activity rates by 10-4 per cent for meles and 8-7

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per cent for females. Fectors that partly socount for the relatively low male race in the region are the higher than everege numbers of self-employed. the leans number of university students and the armed forces who are not counted as employees but are included in the home population. Allowing for these three occeparies, the difference between the national and regional male activity rate nerrows to 3-8 per cent, and this difference might be even further reduced if the higher than average number of regired in the region was also taken into account. 256. All four fectors will still be present in the future-self-employment, which fell between 1961 and 1965 by 6,000 approximately, may continue to decline, but the number of students will increase, and there is no resson to think that either retired people or ermed forces will diminish in number. It therefore seems unlikely that, so for as the existing population of Best Anglie is concerned. male activity rates will increase with any rapidity. In fact, they may well decline in line with the national trend. On the other hand, female activity retes eppear in the region to be unaffected by the fectors listed, and there ere grounds for believing that as the extent to which East Anglia depends on egriculture reduces end es it becomes more urbenised, its femcie activity reces will move upwards to a position which is nearer to that of the industrialised regions. The younger age structure in the future can elso be expected to raise the ectivity retes.

A forecast of lebour supply 1971 and 1981 280, it is possible to estimate the approximate

also of the labour supply on a range of probebility for 1971 and 1911. Fail dealline of the methods used for 1971 and 1911. Fail dealline of the methods used on 1981 and 1911. The estimates exclude on 1981 and 1981. They take account of the size exclude or extracture of the projected population in 1971 and 1981, and easure that higher proportions of people moving into the region will take employment then will the easiling population, and that an interesting proportion of the native female population will be affected proportion.

TABLE 12 Forecasts of labour supply 1971 and 1981

	Me	les	Pamelos		
Year	nepont entitle)	Activity retes	Labour eupply 1000	Activity rates	
1968	403-2	66 0	211-4	33 8	
1971	410-6- 419-3	66-0 67-2	217-7 226-1	33-7 38-0	
Difference 1985–71	+7-4 +16-1	0-2 1-2	6:3 14-7	0-2- 11-	
1981	486 2- 617 6	66-6 70-6	265-4 285-6	36 1- 39-	
Difference 1906-81	+ 96-0	10-6 14-6	\$4.0- 64.2	41-2 (6-)	

281. A striking conclusion is the relatively small additional supply of lebour that will be requiring employment between 1988 and 1971 (some 7,000–18,000 males) and the relatively large increase in below rupply (some 78,000–88,000 further males) expected between 1971 and 1991.

Labour supply in New and expanding towns 1981
282. In peragraphs 381–389 we attempt to set mate the probable labour supply and demand in the alpha main town development schemes in

282. In perspective 3817-582 we distinct to a perspective 3817-582 we distinct to a time sight main town development chemine in the sight main town development chemine in the sight main town development chemine will have been joined by two very much large will have been joined by two very much large will propose the perspective of the perspective of February 1811, therefore, it is entiseeny to long and those project and perspective of 2800 color to the perspective of 2800 color town or perspective perspective of 2800 color town or perspective town or persp will be similar to those of past migretion to New Towns and Town Development Act schemes since 1960. 283, Table 13 shows that some 68 per cent

coround 112,000 persons) of the entire increase in labour supply in East Anglis expected between 1966 and 1981 can be attributed to net migration from outside the region to Naw and expending towns.

284. In addition to these totals the New end expending towns will have to take account of the additional supply resulting from natural increase of the local population and from migration originating within the region.

THE INDUSTRIES IN THE REGION AND THEIR PROSPECTS 280. We have found it very difficult to arrive at

reelistic and reliable judgmants of the economic performance and prospects of the mejor industries in the region, in part baceuse the basic statistics on output (sport from agriculture) are not yet available regionally.

TABLE 13
New and expanding towns: labour supply from net migration 1966-81

	Melea	Ferrales	Total
Net migretion from outside the region	114,760	110,260	225,000
Of which eged 16+ in 1981	88,400	86,400	174,800
Activity retea	84-0	44-1	_
Additional labour supply, 1966-81, as a result of net migration from outside the region	74,200	36,100	112,300

286. Nevertheless, we have felt that we should include in this Study our Impressions, which are based on netional trande and on information perhand by the Plenning Board. We have tried to mice eccount of the possible effects of the November 1967 develuation, Wherever possible, we have equalit corroboration of these impresstree, but we appreciate that they are largely

267. We set out below our assessment of the prospects for 16 mein groups on the beels of the Standard Industrial Classification. Each group has e issue enough number of employees to permit colgulation of peet employment growth retee and estimation of future retre of change, (The summery of future estimetee is given in Tables 25 and

26.) 266 Although East Anglie has a number of industries in which growth of output can be foreseen, a comparable expansion of employment is much less certain. In common with the rest of the country. East Anglien industries have been trying hard to increase productivity, and they ere effected also by the trend towards larger and more competitive units. Our forecast employment growth rates in menufacturing industry ere coneleterally below peet growth retee, first because they estimete future growth of Indigenous industry only, whereas past rates include new industry moving into the region, and secondly because they take into eccount productivity gains and the degreesing evallability of labour in some erase. For service industries the forecest employmere growth reter take account of demends from an increased population.

263. In this section current employment figures relets to 1986 as the base year for the 1966-71 projection period. Employment figures for 1967 are given in Appendix 10.

Agriculture, Horticulture, Forestry and Fishing (Standard Industrial Classification SIC Order

No. 1.) 270. Agriculture end horticulture end the indus-

tries that aupport and flow from them occupy a leading position in the economic and social life of the molon. 271. East Anglia comprises only about 6 per cent

of the eres of England and Wales, but it contains a high proportion of the good quality lend in the country. Some 22 million ecree ere used for agriculture end horticulture, of which about 16 per cent le clessified se very good land and a further 61 per cent es good quelty lend, compered with figures of 5 per cent and 44 per cent for England and Welse, An Elustration of the land quality distribution of the region is given in Figure 16. The versetlity and fertility of the solis, the seelly worked terrain and favourable climets have encouraged the more intensive forms of husbandry. Table 14 shows that while East Anglian farming is predominently erable, non-grazing stock, i.e. pigs

end poultry, le important over e wide erce, and

deirying, beef cettle and sheep are important in several localities. The region provides a substantial proportion of important crops, including over half the suger best ecreece of England and Wales. about a guester of the fruit and vagetables and about a fifth of the wheet, beriev and potatoes. 272 Structure of the industry. Divided among some 25,500 seperate holdings of more than one norn the serieubural and horricultural Industry. provided work in 1987 for ebout 56,000 employees or 10 per cent of the region's employee total*. In eddition, there are some 20,000 who are selfemployed as farmers and growers. It is estimated that some 12,500 holdings provide full-time employment for their occupiers end the rest provide pert-time employment. Ten yeers ego there were 31,000 holdings in the region, and the deing trend towards incor units has been eligibly above the everage for the country. There ere proportionately more large farms (mainly angained In ceresi production) in East Anglia then in England and Weles as a whole fewer of middle size (traditionally associated with milk amduction) end more smell holdings (engaged in fruit end vegetable production or other intensive husbendry). Table 15 shows the 1987 distribution by eize of ell egriculturel holdings in the region. The larger forms constitute the bulk of the agricultural land; farms over 300 scree represent only 9 -1 per cent of the total holdings, but occupy 58-2 per cent of the total earloulturel lend, wherees holdings under 5 scree represent 27-2 per cent of the total but occupy only 0.7 per cent of the

noricultural land. 273 Canits/. The striking increase in productivity. of agriculture in the post second world wer years hee been echleved in part by greater capital investment. During the lest twenty years the rete of investment has increased submentially in real terms, and agriculture is now a capital Intensive industry. The amount of capital employed on ferms would renge ground an everage of £5,000 for each whole-time employee. If the value of the investment in lend and fixed equipment is added. the cepital employed would be between £25,000 and £60,000 for each men. The emount of new cepital per men currently being invested in egriculture is greater than that for manufacturing industry generally.

274. In the region the lendowner, the owneroccupier and the tenant farmer still provide the principal agurous of capital, and the aguity is supported by the banks and other credit egencies. but with the increasing capital intensity of ferming there has been some development of joint stock ferming enterprises relaing capital on the public mediat.

275, Marketing. In recent years there hee been a growing ewereness of the industry's general markedna weekness. Much hee been done or initiated within the industry itself and by the Government to improve merket competitivenese VERY GOOD and GOOD 79% (England and Weles 49%)



MEDIUM 17% (England and Wales 33%)



POOR AND VERY POOR 4% (England and Wales 18%)



Ein 16 Land quality

TABLE 14
Crop areas and livestock numbers in East Anglia compared with totals for England and Wales, June 1967

Crop	Appreciation of relative significance of Eest Anglian production	Eest Anglis	England and Welse
		Thou	sand ecree
Arabie Payvenent green	57% of East Anglie is enable compared with 56% for England and Weles 13% of East Anglie is permanent gress compared with	2,126	14,155
	42% for England and Wales	323	10,143
		2,448	24,298
Wheet	SUBSTANTIAL —20% of E/M ecrange and above swange yields SUBSTANTIAL —17% of E/M someon and above	450	2,223
Barley Data	SUBSTANTIAL —17% of E/W somege and eboxs everage yields MCDEST —Only 3% of E/W somege	567 45	5,221 522
Sugar beet	EXCEPTIONAL —Over 50% of 5/W errange. Norfolk is the main area.	247	
Potatoes Orshard fruit	SUSSTANTIAL —20% of E/W screege Mainly in the Fene APPRECIABLE —13% of E/W screege.	105	450 823
	Importent over East Anglie gaserally. Main centres are Wistoch, Cembridge, Humiteden	23	178
Small fruit	EXCEPTIONAL \$5% of E/W ecreeps. Important over East Anglia generally, Mein centres are Wabsch, Cambridge,		
Vegetables	Hundradon SUSSTANTIAL —25% of E/W strange Each area has its own insensive	11	34
	specialisation, s.g. cabbages in north west Norfolk	109	363
Livestock		Thou	eend head
Cetrie	MODEST —4% of E/W numbers. Centle reering and milk production of local importance in Norfolk and		
Shano	SMALL —Only 1% of E/W population	358 196	9,003 19,552
Pige	SUBSTANTIAL -17% of E/W numbers. Very high population in the Suffolke	981	5.538
Poukry	APPRECIABLE -14% of E/W numbers.		
	Norfolk is the main area	14,510	104,700

Drume Minhay of Ladout

TABLE 16 Agricultural holdings in East Anglia 1967

Size groupe Acres	Holdinge No.	% of total number of holdings	Acea Acree	% of total agricultural area	Average eree per holding Ages
Under 5	0.958	27-2	15,458	0.7	2-55
5-10 1	6,622	22-6	67,311	2.3	9-84
20-562	5,500	25-8	890,308	13-2	50-04
100-2986	3,874	15-1	892,576	27-5	178-77
Over 300	2,337	9-1	1,411,420	65 - 2	503-94

Secret Agricultural Census June 1897.

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60.00

and quality and to strengthen intelligence and research, and there has been a steedy growth in the development of authorities for specific commodities. The introduction of a statutory grading procedure for horticultural produce is likely to be of particular importance to East Anglia.

276. Imigetion. One meens of dremetically reising productivity in some eross and with some crops is by the use of sprey irrigation. In recent years this has been extended from market gardening to form crops. Considerable further potential use exists, particularly on the lighter solls. In general, vegetables, potatoes and fruit justify the additional cost of infigation more than do sugar beet, grass and careals. With cereois, which occupy twothirds of the region's erable land, only a small proportion on lighter solls can show an economic

return for the water used. 277. Looking sheed. Over the lest few years the national average annual increase in output per men in egriculture has been well above the national everage for industry generally. In the last ten years

East Anglien egricultural production has gone up by ebout one-third, while the lebour form has gone down by over one-third. Keeping this up will mean lerger and fower holdings, more capital investment and sustained technological and menagement progress leading to fewer but more

highly skilled and better paid workers and higher production per ecre. 278. In the years shood it is expected that there

will be a further increase in ceraal production in the region, involving both higher yields and an increesed ecreege. Vegetable production should elso increes substantially and, bacauss of increesing specialisation, the region might well become the most importent eres in the country for vegetables. The future for soft-fruit production is reasonably good. The longer term neture of top-fruit production mekse its future less certein because the region is nearly at the edge of the northern geographical limit for the aconomic production of partain top-fruits and some continentel countries enjoy more favourable climetic conditions. With Ilvastock there will probably be a merked trend towerds more intensive units. A decline in gress-fed beef appears to be inevitable because of the poor returns that livestock arezina

gives in relation to other forms of land use; but intensive heef production and possibly even intensive milk production may become important features of the region's agriculture in the future. The peddock grezing of dairy cows is on the increase and there ere moves towerds larger and fewer herds and on increeeing ewareness of stocking densities on grees-land, the use of nitrogenous fertilieers and greater machanisation of feeding and dung disposal. East Anglie is expected to melotein its place as one of the country's most Importent areas for pigs. With poultry there should be a sustained increase in broiler production and

the general picture suggests a movement of producers towerds the source of feed.

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279. In the event of entry into the Common Market there would be some fundamental changes in the method of government support for the industry and problems of reedjustment. An easessment of the main implications for British soriculture of the FFC egricultural policy was included in the 1987 White Peper*. It suggests that increased coars would fell on deiry, pig and poultry farmers who. with certain sections of the horticultural industry, could expect to find their profits reduced. Those parts of the country which are predominantly ereble, or ere producing cettle end sheep, could be expected to do better than erees concentrating primerily on milk and other livestock. On this besis. the prospects for East Anglian agriculture, with about two-thirds of its predominently erable ecreage given over to cereal production, seam generally encoureging. Changes in relative profitability would, however, inevitably have repercussions on the pettern of East Anglian production es fermers sought to reedjust to new levele of

prices end costs. 280. Bloodstock. The bloodstock industry centred on Newmarket makes a contribution to exports assessed at over £1 i million annually. 281. Forestry. The region has about 160,000

ecres of forest land, of which about 65,000 ecres em owned or leased by the Forestry Commission. The private woodlends are distributed on the higher ground of north Norfolk and Suffolk, while most of the state forests ere in the Brackland area. Thetford Forest is unusual in Greet Britain in being relatively isolated from other large forests, but its meturing has been phased to sustain a complex of local wood-using industries, including at present a chipboard fectory and a number of sawmils.

282. The current production is about 5.250,000 cubic feet of wood per ennum, end this volume will rise steedily. About 1,000 men ere employed in the woods and rether less then this number in directly associated activities such as transport and sawmilling. 283. Fishing. The fishing industry continues to

make a useful contribution to the economy of East Anglie. Fish lended by Sritish vessels in East Anollen ports in 1866 was valued at about £34 million, of which £3 million was demarkel (pielce. cod, heddock, etc.), £‡ million pelegic (meinly bering) and £4 million shellfish, in 1986 there were about 1,300 full-time fishermen in the region. of whom about 1,000 were based at Lowestoft. There has been a steady increase in recent years of white fishing, off-setting the decline in East

Anotien herring fishing. 284. Lowestoft is en important source of good quelity white fish et e time when quelity is of increasing importance; nearly one-third of all pleice lended in England and Weles comes to the port, and there has been rapid development of the fish-freezing and processing industry nearby. The fleet is modern and efficient and playe an important the emergence of fewer end lerger egg producers; pert in the economy of the port, but a recurring

*The Consent Agricultural Policy of the EEC. Creed, 3274, HMEQ 1987.

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	holdings
	agricultural
9	5
TABLE	Labour

Workers as at Jane 1567

Seasons

Whole-time Part-time 1371

7,5405 3,207 17,489 966'01

shire and the late of Dy

N deep in 10 years 1937-67 % desp in 5 years 8

> 5 982 No. of workers 1957

1902-67

29,143

3,207 No. of workers 1962 1967 Reduction in regular whole-time workers

3,694 23,443 14,663 807.628 100112 13 15.5 2 108,18 803,730 14,523

> 16,176 18,220 55,657 442,009 24,966 52,023 2,517

> > 30,276 29,143

> > > cal: England and Water

23 6,183 12,881

Ť 2,287 1,664 8736 47,624 problem is the shortege of skilled crows. There is a keen demand for the products of the shellfish industry, which provides a usaful source of employment at some of the small inshore fishing

285. Employment in agriculture, forestry and fishing. Employment statistics for the period 1957-67 in Table 16 show that the number of regular full-time employees in agriculture has declined by over one-third. This is a rete of decline of some 3 per cent per ennum over the period, but in recent years the figure has tended to be higher then this everage. The decline is expected to continue for some time yet, elthough probably at something less than the very high retes of recent years. Changes for each year from 1950 to 1967 are shown in Appendix 13 and en age breskdown of male workers for 1967 is given in Appendix 14. Sessonal and casual labour is a particular feature of the type of ferming in crees like the isle of Ely

288. The estimates of the future employees in employment in agriculture, horticulture, forestry end fishing enticipete a further decrease in male employees of 4 · 2 to 4 · 8 per cent per annum, and for the few females a change within the range of between +0.2 per cent and -0.4 per cent per annum.

Mining and Quarrying (SIC Order No. II) 287. Mineral working is of lesser importance in

end perts of Norfolk.

country. The major mineral assets ere send end grownl and brick-clay 288. Sendend grave/ Sendend gravel production

East Annie than in most other regions of the

in East Anglie emounted to 4-3 million cubic verds in 1986 (see Table 17), approximately 5 - 3 per cent of the England and Wales total. The major sources ere vailey gravels, most widespread in the western pert of the aree but found along ell the melor river valleys, the Fen-edge arrivals, perticularly important north-west of Peterborough, and the scettered alociel gravels of Norfolk and Suffolk. Marine deposits are being dredged from banks off the coset of Suffolk and north Esex, but ere mainly landed in the London eree. This source is likely to have increasing importance in the future. 289. The rising demend for send end gravel has caused land-based supplies to become increasingly scerce in parts of the South East Economic Planning Region: the situation is likely to become more soute since it is estimated that the annual requirement of send and graval will double in the next deceds. While East Anglie should be able to meet its own needs until 1981, including those for New and expanding towns, it is unlikely to be able to help meet the deficit in parts of the South Fast without ancroaching on lend of high egricultural or emenity value.

The government-sponsored Economic Minerals Survey begen in 1966 a study of the glacial gravel potential of East Anglia. In addition, exploratory work is being undertaken to find new merina deposits in deeper waters off Suffolk and in the Wash, if worksbie deposits are proved, coneral atten will be needed for the establishment of wherves, processing pients and gravel storage areas. Alternetive materials such as lightweight accompanies will also have to be used more extensively than at present

291, Other minerals. Sillon sends ore worked in

the King's Lynn erae and era used primarily for gless making, but elso es moulding sends. Chelk underlies the whole of the region east of the Fens, but it is worked only in the western part and in certain river vallays, e.g. the Gipping and the Yare, as algowhere it is concealed by newer sediments. The bulk of the output is from three pits-two in Combridgeshire and one in East Suffolk-which supply chalk for cement making. Most of the emeiler querries produce meterial for agricultural use. Chelk reserves ere believed to be adequate for future working. So, too, ere those of the Lower Oxford Clay, which is of considerable importance in the western part of the region for the manufacture of fletton bricks.

292. Employment. Of some 2,000 employees engaged in mining and quarrying about 60 per cent are in chalk, clay, sand and gravel extraction, while a further 35 per cent am in verious miscelleneous extractive industries. Future building and

TABLE 17 Sand and gravel production

	Thousand cubic yards						
	1960	1501	1502	1963	1984	1565	1956*
Cambridgeshire and Huntingdonshire (excluding Soke of Peterborough)	304	900	994	1,171	1,005	1,242	1,133
Norfolk	1,204	1,475	1,393	1,479	1,676	2,011	1,849
Suffolk	634	1,092	1,104	1,061	1,337	1,310	1,285
	2,842	3,627	3,491	2,700	4,618	4,663	4,347

Source: Ministry of Public Building and Works.

civil engineering operations in East Anglis will probably increase demand for sand and gravel, but the numbers employed are too small for netsuristion of employment growth rates.

Food, Drink and Tobecco

220. The group account for 92,000 employees, 90.07 year cost of the employees in manufacturing analysement, and is the second largest ministering analysement, and is the second largest ministering catagory in the english. Most of the employees are supposed in fruit and vegetable properties of the employees are supposed in fruit and vegetable employees. The employees is an important scalling therefore and making an employee and employees are contained as in properties of the employees in solution of food-pocasating concerns as powered by two locations. First, most of the produces is builty and september to transport and, secondly, much of it must be processed whilsi trash. The industry is

therefore particularly concentrated in the main supply eress. 295. The traditional parts of the food-processing industry are finding their home markets well exploited and are unlikely to expand very fast. in recent years new methods of production have been introduced in order to maintein or improve the competitive position of many firms in the cenning, milling and baking tredee. Maanwhile, there are thriving new industries engaged in processing poultry and freezing and pre-packing fish, fruit end vegetables, and on balance the outlook is expansionary. The brawing and melting industry has tanded in recent years to become concentretad in highly automated units, and some small brawarise and meltings have been closed. 296. Employment, The food-proceering Industrice in general are industries whose lebour force is subject to eessonal fluctuations, the esseonal 'trings' being meinly famels. Some of the lerger

employers see in or close to New and expending covers. With this influx, or new industries competition for labour will intensity, which is the competition for labour will intensity where industries the control of th

297. Over the post few years the growth in this industrial sector has been at the rate of 2-7 per cent per annum for males and 2-4 per cent per num for females. Growth is expected to be maintained, but at a slower rate.

Chemicels and Allied Industries (SIC Ordar No. IV)

298. The chemical lindustry employs a comporttively small proportion of the minus/scraining amployees in Essat Anglis - 10,100 or 6-4 per cent. The major sectors in the region of this widerenging industrial group see fertiliser production (metrity compounds and superphosphotes) and past centrol-terminals. basic measinisk for plessio

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goods, palet messurfacture and the beginnings of fine chemical production.

389. On the bests of pest trends a steady increase in hame demand for fertilises can be presumed, it is not exposited that entry into the EEC would have any significant effect on fertilise exports or imports. The regioi growth of plentis output is likely to continue, but it is doubtful whether in Itself and the state of the state of the state of the state of the Itself and the state of the state of the state of the state of the Itself and the state of the state of the state of the state of the Itself and the state of the state of the state of the state of the Itself and the state of the state of

mant, it eny rete in the short torm.
300. Production of pairs in the United Kingdom has been fieldy static during the past few years end consumption is expected to shown only a stady increase in the immediate future. This compatitive industry is tending to become more efficient and centralised and East Anglis has benefited from this. Paint exports gwedly exceed imports, and entry into the EEC would be unlikely to effect this only stated.

301. Employment. The employment growth rece between 1981 and 1986 was 2-6 per cent per annum; only a slow rate of employment expansion is forecest for the period 1988–71.

Engineering end Electrical Goode (SIC Order No. VI)

302. In the region this group covers a diverse range of products from heavy capital aquipment to light consumer durables. It also includes highly specialised and applied cased products connected with the edentific instrument and electronics

Industries

55,500, or 29-6 per cett of all menufocturing
amployment, an increase of 12,000 in the fiveyeer period since 156,100 in the fiveyeer period since 1661, of which 9,200, or 65 per cent, wes in mide ancipornent. A quester of the 65,500 was employed in electronics, one-fifth in all cettorial angineering, about one-twentieth in assentitic instrument manylecture and the remaining half in a vertey of mechanical sengineering.

304. Mechanical and described explorating. During of mechanical est discribed exploration price of mechanical est discribed exploration phase been because of the property has been been seen as the property of the property

be appetition from x-redinary industry, which is of importance in the region, has a largely registerant home market, though this does not rule out some market supervision over the years, perticularly so new and more sophisticated types of machinery emerge. Exports here increased and devaluation should halp prospects further, but as developing countries inclusiveliate they tent of

manufecture their own tillage implements rather then pey expensive transport costs for this heavy equipment. Nevertheless, other developing countries continue to open up fresh merkets. Entry into the EEC might in the long run provide a useful fillip to exports, especially with the increase in prosperity of the EEC farmer.

306. The radio and television industry, despite its splendid growth record, is subject to cyclical fluctuations in consumer demand and has been experiencing a recession. The demand for these products is exceptionally sensitive to broadcesting policy on the one hend end to measures to control the economy on the other. Generally, a recovery in demand for tolovision sets is expected now, which may grow as colour television etimulates demand. in radio the growth of local broadcesting may not only revive demand but help manufecturers to recover a higher proportion of their home merket. The rate of replacement of used sets is also importent. Trade in redio and talevision receivers between the United Kingdom and European countries is limited. The mein foreign competition (chiefly in redice) comes from Hong Kong end Jepan, it is expected that any rise in output over the next few years can be met by a more intensive use of existing plant, though colour television may

require additional investment. 307. Recent trends in demend for electronic cepitel monds have been ressonably good, due mainly to the spreed of electronics to new fields such as education, eutometion end the aircraft industry. Demend for these goods seems likely to incresse. especially in the more developed countries. 30B. Exports of electronic capital equipment are moderately good and seem likely to continue. aspecially eince develuation. The EEC could provide en increesed market; the British lead in electronic technology is sufficient to ensure that we would be in a good competitive position. But competition from America may be expected to intensity when the wer in the Fer East comes to an end: Jenen elso is coming more end more into the capital goods field. There may be acope for structural re-organisation in key areas of electronic capital goods, and international companies may concentrate menufacture of certain types of equipment in one country. Size, however, is not everything end in some crees of electronics small dynemic firms will continue to here an important part to play. 309. On existing demend and performance a rise

in output in the next five years is foreseen, but it would seem that in creas of labour shortage a more intensive use of lebour will be required. 310. Electronic components have been arriquely affected by the fell in home production of talevision and redio receivers and the import of cheap radio receivers and components. The British components industry is likely to be squeezed from both ends by the technological lead in sophisticated products held by the USA, end by the manufecture of simpler components by the less developed countries using cheeper lebour and theraby

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considerations apply as to electronic capital goods.

name on with research and development of new components and new techniques to raduce the amount of production lebour required. 311. With record to exports to Europe the same components.

schlaving lower prices. There would appear to be

strong incentives for British menufecturers to

except that the advantage of the British technolonical lead is confined to certain epoblishment

312. Output in the next five years could undoubtedly increase by the fuller use of underamployed equipment, but further investment in plent and buildings will be required to keep ehreast of new techniques (particularly in micro-

circuitry) end to meet foreign competition. 313. Employment in engineering and electrical woods. The menning of this group of industries is constantly affected by technological change. This

is markedly so in the electronics industry, as

errosed in the Department of Employment and

Productivity Manpower Research Unit Study No.

5*. This Study points out that in the electronics industry savings in menpower achieved by tach-

nological means are expected to be largely offset.

and often exceeded, by ingreased demand in the country ea a whole for the industry's products.

Apart from the capital goods sector, a reduced

demand in the industry is envisaged only for wiremen, sheet matel workers and labourers, but

even this is likely to be so ameli that it will usually

he met by normal westeds. The extent to which these national transfe will be applicable in Fact

Anglie is not known, because the East Anglian

electronics industry is concentrated in a arrell

number of large firms with international connec-

tions. The fortunes of perticular establishments in

Fast Annile belonging to such groups could be

affected by retionalisation or concentration

achernes, such as have been experienced in other

perts of the country recently, and might not follow

the United Kingdom pattern very closely, With

this important reservation it is possible to forecast

continued employment growth in the electronic

capital goods sector of more than 6 per cent per

engum: in other asctore of electronics, growth is

expected to exceed 3 per cent per annum. With

record to employment in angineering, eimiter

considerations are expected to apply in relation

to technological change which, it is fait, will bring

ebout a raduced damend for unakilled manpower

end en increase in demand for trained operatives.

314, in the engineering and electrical goods group as a whole, amployment grew by 4 · 7 per cant per annum for males and 6-7 per cent per annum for females between 1861 and 1866. The forecast employment growth rates for the period 1988-71 are about half these rates for males and famelas. Vehicles and Parts

(SIC Order No. VIII) 315. The industry amploys 18,300 or 9-2 per

*Elegracian HW80 1987.

and of membraching employees. Notice are as own employee promotion and the risk in emphasis to ordissel emplose (for tempore vehicles, rectore, books and enterlower, and/next), while there are the rector of the rector of the rector of the tables and toge-ties motor tellular and cerevan. St. The overall demand for commental vehicles in expected to grow at about the same rate on the near the present the rector of the growth resulting matter than the rector of the provider resulting matter than the rector of the provider resulting matter than increased numbers. Increase in the demand for bectome seems lasky to be also the region tellular to follow the review of the tellular properties of the properties of the tellular properties of the properties of the tellular properties of the properties of the region is called to follow the reviews of the tellular properties of the tellular properties of the tellular properties of the tellular properties of the properties of the tellular properties of the tellular properties of the properties of the tellular properties of the tellular properties the tel

rather than increased numbers. Increases in the demand for totations seems likely to be allow.

317. Employment: Employment in the lindustry in the region is unlikely to follow the transis of the region is unlikely to follow the transis of the region is unlikely to follow the transis of the region is unlikely to follow the transis of the region in the region combined was 2-4 per cent per enrum between 1961 and 1995; we expect a rether slower increase in demand for labour, merching the needs of the discell regions end cerevant industries.

Clothing and Footwear (SIC Order No. XII)

316. Focorreac. The making of Indial's fashios and children's shows has for many years been the stopic metrolifecturing industryof Nerwick. In 1988, 7000 preson were semployed, 3.7 per cent of the regions meaning industryof Nerwick. In 1988, 7000 preson were semployed, 3.7 per cent of the regions meaning employees. In 1989, 7000 present in 1989, 7

not one of the principal amployees of libbour in feet Anglie, it has a long history of essociation with the region, and a considerable vertery of gements are produced, including gloves, underwest, lottles' and man's clothing, plastic releveer and industrial clothing. In 1986, 6,880 people was employed.

321. Against the national tendency, employment in the industry grew a little—by 3 per can—in the five years 1961—66, mainly because of the introduction of three new firms, but at a slower retween the the experienced by menufacturing industry se swhole. The industry employe females to melos in the ratio of hour to one.

302. Devaluation may improve the competitive position of the home industry. In spite of the probable post-devaluation increases in the price of worl cloth and cotton cloth. 30 //mplcyment in the footweer and clothing feduratives. In the footweer industry, resionalisation

and new technique will reduce the labour content of abos-making and employment may well continue to decline.

324. In the clothing industry higher output is expected to come primarily from better use of existing lebour se the industry fecas storag competition for salital sloop. From other industries.

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325. For forecasting purposes the clothing and flootware industrian ass grouped with the textilise industry (SIC Order No. X) and with the submit industry (SIC Order No. X) and with the listher, listher pools and far industries (SIC Order No. XI). Taking the time Shondard Industrial Classification Orders opportunity, there was a dealthin in employment of 3-6 per care per ennum for mitles and of 1-9 per cont per annum for females in the paried between 1961 and 1996. Between 1966 and 1971 this declinal is expected to modernes.

Timbar and Furniture (SIC Order No. XIV)

328. Nine thousand, four hundred persons were employed in the simber and furnishing tesdes, or shout half in soch—in Seat Angle in 1986, or 6 per cent of all meantscouring employees. The import end processing of timber must depand principally on markets provided by the building and the seat of the control of

6 per cent of all manufacturing employees. The provincial process of the building employees are sequently as the process of the process of the building process of the process of the building process of the process of proces

will not between a modest growth in the segled. 227. There are should do domestic furnishus companies in Seat Angils, and the leading firms were approached size of some regularly than the area of the seat of t

328. The prospects for this furnisher inclusing via a whole depend from the coverell level of examenic whole depend from the coverell level of examenic of this growth that is charcelled into private conumpairs and, according, not in inclusive's secoses or failure in minimaliting and improving the where consumers' expenditure sillocated to bis produces. This letter has been failing since 1369, but sessuring a 3 per cent provider-less for QPD (grossassurings a) per cent provider-less for QPD (grosscomestic product) and a resolvable level of publish consisting products of the product of the produc

can be spectred in the next five years. Other factors effecting demend incide marriage stends, the level of new house-building and inward figuration to the segion. Develution will probably rates furnishe prices on average and will seed to evolution from the production of humber with matchia of very high import content to alternatives with report of the production of humber will enter the service of the production of humber will enter the service of the production of the studies; or now server from natural model before the studies; or now server from natural model before the studies; or now server from natural model before the studies; or now server from natural model before the studies; or now server from natural model before the studies; or now server from natural model before the studies; or not server from natural model before the studies; or not server from natural model before the studies; or not server from the indistance will probably tend to

reduce the demand for discrt labour-and these will cooked by a transf towers as motiving a higher pospertion of unskilled labour. Foreign tades is not persidually important in the wood furnituse industry; the transf of exports a constraint and should be aided by destination. Any rate in output which occurs in the rest five sociality are should be aided by destination. Any rate in output which occurs in the rest five sociality and the should be aided by more intensive was of the bloow force.

232. Employment For amployment purpose the intrinse industry is not nomally registed as a growth industry, being subject to fairly issue opening the control of the control of the procession of the control of the control of boosure methods which accommand as the control of the control of the boosure method which accommand as fairly control of the fairly control of the fairly control of the fairly control of the procession of pr

Paper, Printing and Publishing (SIC Order No. XV)

330. The industry may be divided into the manutenture of peaps, which includes the melting of carboard boxes, containars and stationary; and the printing and publishing side. In emologement seems this group ranks as the fourth largest manuteness this group ranks as the fourth largest manuteness this group ranks as the fourth largest manuteness that the peace of the peace of the peace or 6 4 per cent of manufacturing employees in 1966. The printing and publishing industries comployed twice as many people as the popular industry, although the latter than the people in the modern emphasis on packaging in the makestice of condens emphasis on packaging in the makestice of condens.

331. The growth of the paper packaging industry depends on the buoyancy of the economy generally and on the growth in the user sectors, e.g. aupermarkets, mail order distribution and consumer durables in general. Import pressure in unlikely to have any serious retarding effect: neamess to customers, speed of delivery and machines to undertake special orders at short notice are more important than price. Increasing output will involve greater use of the existing plent end the extension and modernisation of plant and buildings by the larger manufacturers. in the next five years the labour-intensive packaging industry will probably employ more people, particularly part-time famale workers. 332. The newspaper section of the printing and publishing industry is virtually static. Both national and provincial newspapers here been affected by a daclina in advartising revenue. Sook publishing is doing a flourishing export business, with damend stimulated by increasing prosperity and

333. Printing is assantially a bespoke business.

rising aducational standards.

and although the Industry has managed to haid its own in the domestic market it has not done as in the growing international market. It is thought that East Anglian Firms fully appreciate the need for new methods and modernization and a grosses expends but with the grodule international section of the Industry It is unlikely that there will be substantial increases in the labour force.

334. Employment. Employment in the paper, printing and publishing industries grow between 1961 and 1966 by 6-5 per cent per annum for males and by 4-6 per cent per annum for females. Setween 1968 and 1971 a allow rate of employment growth is forecast.

Remaining Matal-using Manufacturing industries Metal Manufacture (SIC Order No. V)

Metal Menufacture (SIC Order No. V) Shipbuilding end Merine Engineering (SIC Order No. VII) Metal Goode Not Elsewhere Specified (BIC Order No. IX)

335. Most of the 3,900 people employed in 1966 In metal manufacture were in foundries producing castings for engineering products, primarily saricultural implements. Most of the foundries are located in or around Ipswich, and the future of the industry is closely tied to egricultural anaineering. 336. In the shipbuilding end merine anginearing industry practically all the 3,500 people amployed in 1966 were engaged in shipbuilding end receir-Ing: about half were employed in the Lowestoft and Great Yarmouth area. As in past years, growth will be almost entirely due to an increasing damend for small boats. Larger craft are built in the Lowestoft area, where capacity has been modernlend and the industry competes effectively in the export merket. However, the Government's mangures to stimulate employment in Development Arees, perticularly the Regional Employment Premium, are resulting in increased competition from shipbuilding firms in those areas. 337. Employment. The group es a whole has shown a steady growth over recent years, averaging 1 · 6 per cent per annum between 1961 and 1966. We see no resson to doubt that a slow

growth will be maintained by all three components. Miscellaneous Manufacturing industries

(6IC Order No. XVI)

338. A veristy of menufactures is included in
this Order. Those found in the region are rubber
goods; brushes and brooms; toys and sports
equipment; end plestics.

for East Anglia. A wide range of plastic products

stional goods; brushes and brooms; toys and sports
quipment; and pleatics.

sibling 39. The plastice industry employed 3,200 or
1-7 per cant of the manufacturing employees in
the region in 1966. This is a smell proportion, but
the industry seems to have considerable potential.

is streety made, for instance, bottles and conminant, toys, begs, tanks and pipes and bettery separators. Several firms have catablished themsetyes in East Anglie in the '60s, some in con-

junction with overspill schemes. The industry has also settled in rurel craos. 340. During the past decede the use of plastics has increased repidly year by year. This trand is synected to continue and will be certicularly cylinebia in building, packaging, vehicle, agricultura and domestic durable applications. It is

serimened that the domestic merket could be doubled over the next five years, and perhaps pebled over the next ten. 341. The other industries have maintained a steedy but slow growth, and this is expected to

continue, particularly in the rubber goods sector which is centred around Huntingdon end is malrily concerned with the production of rubber accessories for the motor vehicle industry. 342. Employment The total of employees rose from 3,500 in 1961 to 6,600 in 1966, recreaenting s growth rate of some 14 per cent per annum. most of which can be attributed to the expension of the pleatice industry. A growth rate of around

Construction

(SIC Order No. XVII) 343. The construction industry in East Analia in

1988 employed an estimated 52,500 persons, rapresenting 3.5 per cent of the total construction force of Epolend and Weles. The estimate covers ell employees of contractors, but only the operatives employed in the public sector. The salf-amployed bring the total to over 55,000. 344. Output on construction in East Analie

during the first querter of 1967 totallad about £26 million. Table 16 shows how this output is related to the different types of work. This breakdown is broadly in accordance with the national pattern. but the proportion of industrial construction is below the netional norm and new private housing is above it.

345. Table 19 shows the value of orders for new construction obtained by contractors registered In Feet Anglie since 1964, the first year for which securate statistics are available.

346. The renductivity of the construction industry in Great Sittein has risen, overall production in 1967 being 44 per cent higher than in 1956. whereas the labour force amployed by contractors

C william (not at ponetter) original.

TABLE 18

5 nor cant par annum la forecast.

Output on construction by type of work in 1st quarter 1967

	New housing	New non-housing	Repair and maintenance	All
Dy contractors	8-18	10-16	4-83	23-13
By local authorities	0-10	0-40	1-90	2-40
By public utilities	-	0.22	0-16	0-38
Total	0-28	10-77	0-19	28-91

Source: Minkey of Public Building and Works.

TABLE 19

Orders for new construction 1964-67

	1984				1966		1998			1967		
	Jen-	July- Dec.	Total	Jan- June	July- Dao.	Total	Jan Jans	July- Dec.	Total	Jan,~ June	July- Dec.	Total
Housing Pable Private	10	17	13 29	16	18	17 32	7 18	11	16 27	11 16	8	17 29
Total housing	21	21	42	24	26	49	23	19	42	29	17	48
Non-housing Public Private Industrial Non-Industrial	14 8 8	13 8 8	27 17 12	16 9 4	9 9	28 18 8	11 9 8	16 8 3	28 18 9	18 11 6	13 11 4	31 22 9
Total	28	28	66	29	23	62	26	24	80	34	28	62
Grand total	49	49	94	63	48	101	49	43	92	83	48	108

Some Ministry of Public Building and Works.

TABLE 20

New dwellings built by industrialised methods (as percentage of total by local authorities and New Town Corporations)

	1964	1966	1959	1987 (JanJuna)
England and Weles	14-4	19-2	20.3	29 - 7
East Anglia	Not evaliable	10 8	12.0	11-6

increased by only 4 per cent. Separate figures for East Anglis are not available, but it seems that the region has conformed to the netional pattern and productivity in construction has increased significantly.

347. Building by industrialized methods is, hownew, developing more slowly in East Anglis then in the country as a whole. The figures for contraction of the state of the state of the state of the New Town Corporation in Table 20 liberate this. 348. Employment in construction. East Anglis has a more than proportionals share of the sational boundaries of the state of the sational local department of the state of the sational boundaries of the state of the sational local department of the sational state of the local department of the sational state of the sational

of the courty.

349. The Ministry of Public Building and Works census in 1957 showed 2,510 firms registered in East Anglis, employing some 35,500 operatives, representing 3·2 per cent end 3·3 per cent respectively of the national totals. The distribution of firms by size conforms in general to the notional gattern, as shown in Table 2.

TABLE 21 Distribution of building firms by size

Size of firm by

20-5	
68 8	

Percentage of total number

330. Operativas employed by registred firms include some 25.800 altilled workers (including about 2,800 indiantured apprentices), the sersalin-ing 13,000 being mainly unabilitied lobourers, in recent years there has been a gradual reduction in the numbers of reducinal building certamen. The increase in semi-skilled work is indicated by the rise in employment on such work as metahinate augument handling and formwork srecking.

351. The planned expension in East Anglis will.

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cell for a substantial programme of house, industrial, school and hospital building, road construction and other works. Not only will new houses have to be built, but many of the lower stendard houses will need improvement and modernisation. East Anglian contractors will be fully employed, perticularly on the smaller contracts and the follow-up and maintenance work, although a proportion of the larger projects will no doubt be carried out by 'national contractors', who may import some men temporarily. Even with economies in the use of labour deriving from lerger scale working and the use of industrialised techniques it is likely that more labour will be needed, but the industry has elready shown that it can expand its employee total quickly when the demand exists.

Bricks (SIC Order No. XIII)

332. On the vivialism borders of the region, centred exceed Presidency and the control of the co

303. Future terror in employment in the coordinates. Growth of employment in the coordinates of the coordina

Transport and Communications (SIC Order No. XIX)

(SIC Order No. XIX) 354. In East Anglia 91 per cent of employment in this group is accounted for by the Poet Office (30 per cent), the relivery (29 per cent), road haulage (19 per cent) end road passenger trans-

al port (12 per cent); the remainder are in sir, see, port and inland water transport.

II 355, Some relikway services and lines have been rigsed, and even on the remaining lines the labour force has been reduced. Further economies in labour ore likely, even if no more lines ere closed. Road passenger transport has elso auffared from declining revenues, and this trend, too, is expected to continue: it is therefore clear that neither the pliways nor road passenger services ere likely to provide growth in future employment.

358. As modern handling techniques and other methode of increasing productivity are being introduced, the numbers employed by road heulson contractors are not expected to increese; but there may be off-eatting increases in similar employment

in other industry groups. 367. The Post Office is a growth industry making great technological advances and expending to meet population needs. Modern mechinery for mail handling has been installed at Norwich and is shortly to be installed at Cambridge, ipswich and Peterborough, The 300 telephone exchanges in the region ere mostly automatic, and all will be by 1970. The number of telephones is expected to double within the next ten years or so, and on intensive development progremme le in progrese to meet this growth, including the recently opened zone centre at Cembridge to evoid London routings for trunk calls. About 52 per cent of subscribers in East Anglie heve Subscriber Trunk Dieling, and almost all will have it by 1971. international subscriber dialling is evallable to six European countries end it is hoped to extend the facility to a further eix countries during 1968.

Future extension to East Anglie is plenned. 366. Employment. Setween 1951 and 1968 growth in the Post Office offset a decline in the level of employment in the transport industries of the group, resulting in an overall growth rete of 0.7 per cent per ennum for meles employed, whilet for females a growth rate of 4-4 per cent per ennum produced about 1,200 extre jobs. It is shought shat the anadust decline in male employment in transport will continue, partly balanced by the enticipated increase in Post Office employment. For femeles, some reduction of the unusually repld post prowth is expected; this takes account of reductions in demend following automation in the Post Office and increasing competition for female lebour from other industries.

Distributive Tredes

which edil seem broadly true

(SIC Order No. XX)

359. When the Study was being prepared the most recent source of information covering the region se a whole was the 1961 cansus of distribution. Some local authorities have collected more recent local date, but unfortunately their information did not allow comparisons between control. The census meterial leads to conclusions

360. The census covered retail distribution, and thus about three-quarters of all engaged in the distributive trades; 4-5 per cent of the total population were employed aither full- or part-time in reteil and service setablishments. Employment in East Anglie was proportionately well below the netional everage and below the more densely populeted industrial areas. It had one retail establishment to every 105 parsons, compared with the national average of one establishment to

every 69 persons, se shown in Table 22. 361. Annual turnover in East Anglie wee low et £153 per head of population. This was £21 below the Great Britsin figure and about £10 balow the industrial regions. The low turnover per head consists with the low employment income.

362. The turnover in the sub-divisions coresnanded exectly to the distribution of population.

TARLE 22 Regional retail trade: employment, establishments and turnover in East Anglia compared with selected regions 1961

			ŀ	EXECUTE HALFA E HALFA LIAL COM-					
Region	Pape.	Employed in retailing 1000	(3) ee % of (2)	No.	No. of page. per estab.	Amount £'000	£ per heed of pape.		
(1)	(2)	(3)	(4)	(6)	(6)	(7)	(8)		
East Anglie	1,458	68	4-8	14.038	108	224,081	183		
Dest and West Ridings	4,168	204	4.8	82,036	80	883,881	184		
North Midlende	3,634	173	4-8	44,012	63	888,134	168		
South West	3,405	172	8-0	39,117	106	871,378	188		
William	2,641	117	4-4	31,699	61	389,572	181		
Greet Dritteln	81,280	2,024	8-0	677,907	60	8,918,990	174		

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In view of the lower employee incomes in certain parts of the region, sub-divisional differences could have been expected. The importance of the four major centres in East Anglia has already been amphesised. Table 23 shows their lorge absolute share of the ratali trade. Some cantres appaar to be more important in their sub-divisions then others. Cambridge, for exemple, had half the retail distribution workers in the South West and half the turnover. Ipswich showed a similar position. The North East sub-division is much larger than the others, and Norwich had only 36 per cent of ratali employment and 37 per cent of turnover. Paterborough in the North West had 33 per cent of employment and 36 per cent of turnover.

383. Tolko 24 illustrates significant differences between the Sour major centres in the distribution of shopping turnover among the various cleases of consumer goods. Norwich end Centribidge appeared to provide a more segion and control of the control of the major was pasted on the language and the proportions of aspenditum on other goods was lower. These will be considerable acops for increase and disvariant control of self-increase and self-increase an

major expansions. 386. General francis. Although there is little information about trands in the region there is no reason to think that the development of retail trades would differ from other areas. The trand towards lebour-saving devices and more group buying by independent retellers will continue. Mell order may also increese. 395. The selection of altes for wholessie distri-

The Three selection of dists for wholesale distinbution depots is illustrated by a remixer of factore, butlend explore is illustrated by a remixer of factore, including the location of supply factories, cusinomer, population movement and transfe, motionvary and finight-liner patterns, government, was present to the contract of the contract of the invastrant in credit-lines a little off centra for nationwise (while Earl Angelia is a little off centra for nationwise to the London and Midistand markets, and its contract of the contract of the contract of the population and industry as in forcastain). Some demand of the contract of the contract of the population and in U.T. 2000 emproyees in disdense of the contract of the population and in U.T. 2000 emproyees in dis-

386, Employment, OT 73,000 employmes in agritulativa teacles in 1966, 73 per cent views engaged in retail distribution and 15 per cent in wholeasis distribution. Of the remainder, a lerger proportion than the netional everage was employed by dealers in grain and agricultural supplies end fewer by dealers in industrial mesterials and mechinary.

337. Genveen 1981 and 1984 employment in distribution increased, but in 1985 and 1986 it fall back, with the sealt that over the period 1981–86 there was no net gain at all in employeas. A decline of 1-2 per cent per ansum for makes was coffest by a similar overall gain for familiar. Possible reasons for these trands may be the relatively recent introduction of self-service shops, that tendancy for larger units and the competitive the tendancy for larger units and the competitive.

TABLE 23
Shares of major centres in total East Anglian and sub-divisional retail trade

Place	Employment full- end part-time		Establ	lahments	Turnover		Population	
	No. 1000	% of East Anglis total	No.	% of East Anglie total	Velue £'000	% of East Anglis total	No. 1000	% of East Anglis popr.
(1) East Anglis (2) 4 major centres (2) se % of (1)	55-0 26-8 41	41	14,035 4,248 30	100	244,081 97,762 44	100	1,467 384 27	100
Sub-stivisions (e) North East (b) Norwich (b) so % of (e)	25-2 9-0 37	36	5,485 1,384 25	39	53,218 31,255 38	37	538 120 22	37 =
(c) North West (d) Penerborough (d) es % of (c)	12-4 4-2 33	19	2,797 777 28	20	41,223 14,954 36	18	283 52 22	19
(e) South East (f) Spewich (f) as % of (e)	15-3 7-1 47	23 	3,057 1,119 37	22	82,377 24,006 80	23 	343 117 34	23
(e) South West (h) Cembridge	13-1 6-8	20	2,886 965 36	18	47,243 25,527 54	21	301 85 32	21

Source: Consus of Classification 1991.

		Ì		ľ								
Total	Food and geocetion		Czefectionery and tebacco	è.	Clothing		Household geods	2	Other non-food		General	
COO	000.3	W	000.3	×	001.3	×	000,3	×	000.0	×	6,000	
31.257	10.628	18	1,824		8,528	22	4,339	2	3007	01	4,663	15
14.963	6.810	\$	908	ø	2321	R	1,818	7	1,206	œ	1,400	
36,000	11.157	g	1564	٠	4,528	11	3,102	15	1,856	1	37808	
25.126	8,916	ä	1,422		4,283	4	3,502	2	3,310	2	4,103	
00000	901.00	1	5.010		46.740	18	12 785	13	6422	95	14,002	16

demands for lebour from other industries. 368. In the future the distributive tredes will have to expand their services to meet the needs of o rapidly increasing population, but without a pro rete increase of employees. There will probably be a slow decrease in mole employment, but some increase in female lebour seems inevitable.

Insurance, Banking and Finance

(SIC Order No. XXI) 369. The needs of the region for insurence services will depend upon its population and economic growth as a whole. In general, it is probable that insurence compenies will seek to expand their brenches in the region to meet current population changes and the spread of new industries. There is likely to be en increasing demend for steff on the seles side, particularly males, but the introduction of mechanisation will diminish the need for male and female office staff at brenches es administration is contralised st head offices. The increasing tendency to mergers between companies will produce steff economies. but these will no doubt be offset by increesed business.

370. This pattern may be distorted in and around Norwich by the presence of the headquerters of a large incurance group. The demend for clorical staff there, especially females, is likely to persist for some years, although increasing mechanisation may eventually reduce the demand. 371. Benking is likely to follow the seme pettern

as insurance. The merging of clearing banks and more eutomatic date processing may reduce demands for steff in reletion to volumes of business, but the overall increase in business is likely to maintain recruitment at its present level. with perhaps more emphasis on female staff. 372. Employment. Between 1961 and 1966 employment in benking, insurance end finance services in East Anglie showed e rise of 3.6 per cent per annum for moles end 6-6 per cent per annum for females; a total of 12,600 people was employed in this group of services in 1966. For

the period 1966-71 similar retes of employment Professional and Scientific Services

growth ere forecast.

(SIC Order No. XXII) 373 Of the 69,000 employees in this group in 1968, 56 per cent worked in educational services. 32 per cent in medical and dental services and 12 per cent in accountency, lew, erchitecture, surveying and the like.

374. Clearly, the future development of educetional and health services will demend further increases in steff in the region. Education, for exemple, will have to be provided not only for more than 30,000 extra children in the ege group 5-15, but elso for those who, in increasing numbers, ere staying on at school beyond the ege of 15. East Angile must seek in future to make up some looway, as the proportion of its children staying on is at present well below the national

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avereon. University education will undoubtedly expend, especially at Norwich, Technical and further education fecilities, too, will assume increasing importance. We estimate that over 4,000 extre staff will be needed for these purposes. Hospitels in East Anglie will also need expansion

or replacement on a larger scale to meet the needs of en expending population, even when some ellowence is made for the rejuvenation of the population structure. At present, the numbers employed in the Heelth Service as a ratio of the population falls well below the national everage. and we hope that this ratio will be appreciably increesed in the future, even though the complete elimination of the gap is probably beyond the evailable mempower resources. On the other hand, replecement of old hospitels by modern buildings should lead to economies in maintenance and cleening steff, and savings in time opens by professional staff. 375. Employment. To cope with the population

increese and to make some improvement in the heelth services, both inside end outside the hospitals, we estimate that nearly 6.500 extra staff will be needed. This increase, together with additional provision in education and the other professional services, can be expected to lead to e steedy (but elower then in the pest) rise in employment both for males and females. Between 1961 and 1966 the growth rates were 5-2 per cent per ennum for moles and 3-5 per cent per annum for families

Gss, Electricity and Water, and Miscellaneous Services

(SIC Order Nos. XVIII and XXIII) 376. This group takes in many services and employed 73,600 people in 1966. Gee, electricity and water services employed a total of 12,000 people, and they are bound to expand both in the numbers of people they serve end in the numbers they employ. There will also be an incresses in the people served and the numbers employed by motor repeirers, gerages and filling stations, in which 16,200 people were engaged in 1966. The region's substantial hotel and catering industry employed some 16,200 people, but does not have the same potential for employment growth, bearing in mind the possible effects of the Selective Employment Tex and the difficulties of obtaining scesanol lebour. Privete domestic service le elso substantial in East Anglis.

377. Employment Between 1961 and 1966 there were growth rates for the two orders on e whole of 3.2 per cent per ennum for moles end 1.6 per cent per ennum for females. Between 1986 end 1971 it is forecast that employment for males will rise very clowly, but that the increase in female employment will be sustained.

National and Local Government (SIC Order No. XXIV)

376. In 1966 there were 36,000 employees in this group in the region, of whom 26,000, or 75 per cent, were males Growth in employment, however, was much more regist on the female side, and this trand is likely to continua. 379, Growth in local government, which elsestly has 22,000 employees, is expected to continue, expectally in the town development exherters, and many of the services provided by local authorities.

Go not needly lend themselves to automation, or labour-seving stothiques, some increase immenual labour is probable. There is more scope for laboursaving through automation on the administrative side, shough this may be offset by extension of the single of services provided. 300. National government services in East Angila.

TABLE 25 Summary of male labour demand in East Anglia 1971

		(1)	(2)	(3)	(4)	(8)
industry Group	SIC Order	1066 employment delimete	1971 forecast of labour damend	Difference 1968-71	Add new Industry for expending towns*	Total demand in 1971
Agriculture, Forestry, Fairing	'	80.0	39-1-40-3	-10-9 to -9 7	-	39-1-40-3
Mining, Querrying	"	2 · 3	3-0-3-2	+0-7 to +0-9	-	3-03-2
Food, Drink, Tebsoco	311	22:4	23 8-24 2	+1:1 to +1:5	0 -8-0 -B	24-1-25-0
Charactele and Allied Trades	IV	7:8	7-88-1	+0·3 to +0·8	0-9-0-9	8-7-9-0
Metal Manufecture, Shipbuilding, Metal Goods	VII	8:7	8-9-0 1	+0·2 to +0·4	0-8-0-7	9 - 59 - 8
Engineering. Electrical Goods	VI VI	40.0	64-4-45-8	+4+4 to +5-8	4-8-6-1	49 - 2 51 - 7
Vehicles	Viji	13-7	14-414-9	+0-7 to +1-1	0-61-2	18-2-18-0
Textiles, Leather, Clothing, Footweer	X XI XI	8-8	8-8-6-0	-0.7 to -0.8	0-1	8-96-1
Timber, Femiture	XIV	8-0	8-6-6-9	+0-8 to +0-9	1:1-1:4	9-7-10-3
Paper, Printing, Miso, Mencfeotare	XV XVI	14-8	18-517-0	+2·0 to +2·8	1-7-2-0	19-2-19-0
Bricks, Pottery, Glass, Cornert Construction	XIII	87-1	66-0-67-7	+5-9 to +10-8	-	88 -067 - 7
Trensport end Communications	ж	32-9	31-8-32-7	-1-1 to -0-2	-	31 - 832 - 7
Distributive Trades	XX	38-3	34 3-38-4	-2:0 to -0:0	-	34-3-25-4
insurance, Benking, Finance	300	8-7	7-9-8-1	+1:2 to +1:4	-	7-9-8-1
Professional Solentitio Sarvices	XXII	28-0	28-8-29-4	+3-6 to +4-4	-	25-8-29-4
Other Services	XVIII	36 - 1	39-7-40-8	+1-810 +2-7	-	39-760-8
National and Local Government	XXIV	28-4	29-5-30-6	+1-410 +2-4	-	29 - 830 - 8
Total	HXXIV	398 - 2	412-2-420-1 (ed)ored†)	+14·0 to +21·3	10-8-13-2	422-7-433-

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here size medied to lineases over secent year, but their have been medicious in clulifies employment in delence asstabilithments. There have been one or two velocione developments in the decembratisetion of government afforts, which reported from growth and of the size of the conprovide from growth and of the size of the control of the size of the size of the size of the increase set the projection is bound to increase set the projection opposide, Growth in make employment between 1901 and 1900 was 2.2 per case par armore, but it is set as a 2.2 per case par armore, but it is set as a 2.2 per case par armore, but it is set as a construction of the size of the size of the second of the size of the size of the second of the size of the size of the size of the second of the size of the size of the size of the second of the size of

down, but will still be higher then the rate for males.

SUPPLY AND DEMAND FOR LABOUR to 1971 381, in persgraphs 265-380 we have clean

qualitetive escarsments of the industries in the region. Forecests of the probable amployment for misle in 1931 in each of 17 industry groups are given in Table 25, each for femelas in 12 groups in Table 25. Each forecast is based upon subjective antimates of the future growth rate of smployment, baseline is in middle appearance.

TABLE 26 Summary of female labour demand in East Anglia 1971

	T	(1)	(2)	(3)	(4)	(8)
Industry Goup	SIC Order	1965 employment estimate	1971 forecast of lebour demend	Difference 1866–71	Add new Industry for expanding sowns*	Total demend in 1971
Agriculture, Forestry, Rehing, Mining, Querning	1	10-5	10-410-7	-0·1 to +0·2	-	10-410-7
Food, Drink, Tobecoo	III	16-4	17 -017 -6	+0-5 to +1-1	0-6-0-7	17-6-16-2
Cherricala Metal Manufacture Shipbuilding Matal Goods Vehiclas	V VII IX VIII	6-1	6-3-4-7	4-0-2 to ±0-6	0.7-0.6	7-0-7-8
Engineering, Electrical Goods	VI	18-6	16 -719 -2	3.210	1-0-1-3	19-720-5
Textiles, Leether, Clothing, Footweer	X XI XII	11-6	10 -711 -0	- 1 -1 to - 0 -8	0-3	11-011-3
Timber, Furnitum, Papar, Printing, Misc. Menufacture Bricks, stc., Construction	XIV XV XVI XIII XVII	12-0	14-0-14-9	+2-0 to +2-9	0-8-1-0	14-818-8
Transport Communications	XIX	6-2	5-97-1	+0.7 to +0.9	-	6-9-7-1
Distributive Treden	XX	26 - 8	38-638-6	+2-0 to +3-2	-	38-6-39-6
Insurance Benking. Finance	XXI	6-9	7-9-6-1	+2.0 10	-	7-9-8-1
Professional Scientific Services	XXXII	44-4	49 - 5 - 50 - 9	+6·1 to +6·5	-	49-5-60-8
Other Services	XVIII	35-4	38-3-38-5	+2-9 to +4-1	-	39 - 339 - 1
National and Local Government	XXIV	9-6	11-7-12-1	+2·1 to +2·6	-	11 -712 -1
Total	1-XXIV	210 - 4	231 · 2236 · 2 (adjusted f)	+20-8 to +25-6	3-4-4-1	234 6-240

*Change in order XXX to XXXY (Construction and Services) for expended traces is already allowed for is to a 1971 forecast, equipme CQ, if is executively the control of the

and taking into account:

a the future prospects of component industries
in the group;

b possible future changes in the structure of

b possible future changes in the structure of the group; c affects of automation and productivity absonces:

chenges;
if appropriate, affects of competition from other industries for labour;
a for service industries only, demands from an

learned proprietor.
The females between given in each case as engage of probability, because they exapprove manipulation of probability, because they exapporulate and ligible to conver. They are of employees in employment, i.e. they exclude the unemployed. See The totals (columned (1) end (2)) shows an increase of demand for moles from 388,000 in 1986 to 412,000-400,000 in 1971 for woman an increase or demand from 20,000 are 20,000 are as increased in column of the column o

the region since 1988 or other films which will do no brieve 1971.

383. In peegraphe 258–284 forecette ere made of hume lebour expept) in the region. These indicates a probable increase in made available for employment from 403,000 in 1988 to 410,000–419,000 in 1971; the corresponding increase in the fermie lebour forecest in fermion 1971; the corresponding increase in the fermie lebour forecest in fermion 1980 to 218,000–279 does in 1971.

218,000-228,000 in 1971.
384. Given the poetible mergin of error in both sets of forecests, it is not easy to drew eny clear-cut conclusions. Nevertheless, the mein points which emerge ere:

The estimates suggest that, over the region se a whole, the expected increase in the numbers of man seeking employment will probably be roughly in line with the reta at which new job opportunities are likely to be forthcoming. This would imply, for the region as a whole, no great change in the overage pressure of demand for male lebour. b For women, the simployment prospects seem rathe different, Our information suggests that the expension in job opportunities for women may well be rether feater than the increase in the number of women seeking work. Given our present assumptions elebus ethicity trace, this would meen some shortage of women workers.

325. Within the general regional pattern there are labely to be maded divergencies in the pattern of the pattern of the pattern of the region. It seems probable that fire at horting of the region. It seems probable that fire at horting of popie in eress such on ench Morfald will occeiment, we'llst in parts of the South West sub-division below alternages are priceases. At the sense time, we'llst in parts of the South West sub-division for contract the parts of the sense that required by simpleyers looking for lebour. Finally, there are the south or season to contract where the sense is the sense of the sense of the sense of workspecific separated to move in it as the sense of workspecific separated to move in its or the sense of the se

job requirement.

Labour Supply and Demend in Town Expansion Schemes up to 1971 388. We have tried to serimate the number of

seed the service does not extend to me feetbase conception as period in service me to the service of the town appraid on service me to the service of the bar under very in the period on 1917; King's Lyminrhatoto, harrington Service States (Marchahati Marchall, Suddhuy and St. Notes. Details or in the conductions made for the right service of the conductions and the service service of the Although the region on a vertical version of the Although the region on a vertical version of the designate floor direction of the me service of the sufficient follows: defensed in the present that temperature we have selected that the region that it regions we have selected that some 10,000— 19,000 me to global where to the trought of

13,000 mais joce will have to be crought in 387. It remains to be considered whether these jobs can to some extent be moved from other pers of the region. This is a stretogy point discussed in

TABLE 27
Estimation of male jobs required for expanded towns 1966-71
Male population growth—15 years and over*

		Number of	persons 1000			Percentage	of persons	
Age group	1900	1971 etatio projection	1905-71 migration affect	1971 total	1966	1971 projection	1971 migretion	1971 101si
15-19 20-44 45-64 65+	10-1 45-0 20-6 12-6	11 · 2 46 · 0 30 · 6 13 · 3	0-6 7-6 1-6 0-4	12-0 64-1 32-3 13-7	10-3 46-6 29-9 13-0	11-0 40-9 30-0 31-1	7:6 72:0 16:6 3:9	10-7 40-3 28-6 12-2

*Rouse are ounded and may not add to totals

TABLE 28
Male labour supply forecasts

	1966	1971 projection	Migration affect 1956–71	1971 total
Population aged 15+ Activity rate* Supply forecast (amployees)	99-3 58-7 57-7	151 · 5 52 · 7 — 64 · 2 63 · 6 — 65 · 2	10·8 86·3 — 88·1 9·1 — 9·2	112-0 65-0 — 66-3 72-8 — 74-3†

"These scrittor rose (see Steamy) are based on Department of Englayment and Productivity (OUP) date. The Steams shake were see quitables by product 2 of the sections of scottod in Appetent in Typical Conference in the Steams share in Typic 27 Highler the Steams share in Typic 27 Highler the Steams share controlled the Steam of t

TABLE 29
Male labour demand forecast of existing industry

	1966	1971	Absolute	growth rate %
Extractive Manufacturing Construction Services	9·7 19·2 8·8 19·3	7-8 — 8-0 20-7 — 21-1 11-0 — 11-2 20-5 — 20-8	-1.7 to -1.9 +1.6 to +1.9 +2.2 to +2.4 +1.2 to +1.6	-3:8 to -4:2 +1:6 to +1:9 +4:6 to +4:9 +1:2 to +1:6
Total	57.0	60 0 61 -2	+3-0 to +4-2	+1-0 to +1-4

Part I, but the following facts are relevant: a much of the growth potential existing in Ipswitch and Peterborough will be needed, in due course, for the New Town schemes; b much of the growth potential existing in the

Cambridge area would produce femals rather than male jobs. Also, many of the firms concerned would cleim to have strong ties to the Cambridge area.

388. Conclusions. We conclude that the region will need a modest injection of new menufecturing mels-employing industry between 1966 and 1971 to sustain the town expansion schemes. Some

small additional amployment will also be needed to solve unemployment problems in some rural erase of the region, and this may not all be found from within the region. 389 It should also be remembered that excedence

gained no the in New Towns and appending towns shown that it is no possible to obtain any quantity of industry which is purely mate-employing; if the proportion of males is about these-quantity, this is the bast that can be hoped for. Therefore, in creating 10,000–13,000 male jobs in the expanding towns it is inevitable that some 3,000–4,000 famile jobs will also exceed.

4 Amenities for Leisure, Tourism and the Holiday Trade

A BROAD REVIEW OF THE AMENITIES

AMENITIES
390. Eset Anglis has a distinctive combination of advantages for insure and tourism: a dry and beacing climate, a long coestine with extensive beaches, many inland waterways, a quier rural same and a variety of historical and architectural

trespures. The coast 391, Much of the 180-mile long cosstline is un-

spoils and these see meny good basches Generally these is ready secess, shough in some areas, perdicularly Norfolk, parts of the coestine ere privately owned and the areas of selt member and small credits also practice formal search so are a number of ettractive family resorts, but the considerable challet and cereary and evolopment present important planning problems for the local suthorities.

Inlend water areas 392. The 120-mile navigable weterways of the Reads are one of the most important holiday

regions in Bittain, offering facilities for all kinds of boating, angling and omithiology. The Breads boating, angling and omithiology. The Breads holiday industry is a major contributor to the local occopy, in 1986, following the recommendations of a report by the Nigtue Conservancy*, the Broads Conservancy*, and Indiana Conservancy*, the Broads Conservancy*, the Broads Conservancy*, the Broads Conservancy*, and is the Conservance*, and is t

393. The region is wes endoward with other rivisal and assuries, of which the most important is the 200 miles of navigable water in the Great Ouse complex, to offers great scope for the provision of further leisure amenities, and the popularity of the 1,800-acre Garthem Westr Reservoir in the 1,800-acre Garthem Westr Reservoir in the diagram Valley illustrates the demand for scanic and recreational facilities in this case.

Countryeide

394. The region does not have any National Parks, but the Natura Conservancy has 23 sets blished and Marrie or Breshot. The Haum Conservancy, 1885. proposed National Nature Reserves, and lega tracts of the region have been proposed for designation as Areas of Outstanding Natural Beauty, or ere-considered by the local planning authorities to be of great landscape value.

395. The 240 course miss of the Brackinn are an actarable area of sandy heeths and forestry increasingly used for recreasion. In Thetroet Chess, the Forestry Commission provides sign-posted walks, cap pricts commission provides significant stops, and other facilities, and these forests offer a good exemple of the way in which an annality area can be developed for immediate anionament.

395. Aport from the Bredshand the amount of open land in the region to which the public have unrestricted occess is severely limited because of the danger of demags to agriculture. The White Paper on liciture's drew attention to this condition interests, and we agree with its conclusion that the best approach is to increase the areas open to the public but to define their limits cleanly.

SAT, Intel Colombian and extended and discovery of clause facilities in the countrylade, which the entablishment of a Countrylade, which the entablishment of a Countrylade Commission in September 1997, the Country of the Country of the Country of the Country parts, principle (see see, company plants and country parts, principle (sees, company plants and country parts, principle (sees, company plants and country parts, principle (sees, company) after and westering coberness. The Act also demode seems of clarify mocastery to ensure that it is exceeded system of paths is maintained throughout the design, additional, the may intryl interfere to the selfing paths in through the contract care of the selfing paths in through the contract care of the selfing paths in through the contract care of public (in).

Towns and villages

the outstanding architectural and historic quality of its towns and villages. The seasts are too numerous to list hare, but we must mention the cethodrals of Peterborough, Ely, Norwich and Natural for the Commonte Creek 2018, Need 1889.

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Bury St. Edmunds, the great churches of Lavenham and Long Melford, the Shrins of Walsingham, the Ceetle of Norwich and the lerge country houses. Most important of all is the City of Cambridge. As well as individual buildings, the region has a heritage of picturesque villages and domestic street architecture such as that at King's Lynn, and the Council naturally welcomes the new powers in the 1967 Civic Amenities Act for the preservation of areas of architectural or historic interest as distinct from individuel buildings.

THE HOLIDAY TRADE

399. East Anglia gen provide traditional sasside holidays ranging from the popular amusements of Greet Yarmouth to the quiet cherm of Southwold. Holiday requirements ere changing, and the region is adapting to cater for those who prefer touring holideys, camps, chalets, cerevens or weter-borns holidays. The demand for holidays in East Anglio is widely spread, but comes mainly from London. the Midlands and Yorkshire.

Holiday-makare and their expanditura

400. The main source of information about the holiday trade in East Anglie is the British Traval Association (BTA) Annual Surveys which used to be based on the BTA East Region *, but which now also show the distribution of holidays by economic planning regions.

401. The 1967 survey indicates that about 10 per cent of British holidays? are teken in the BTA East Region. This represents about three million holiday-makers in 1967, compared with around two million in 1951, and seven out of ten of these holidays were spent in East Anglia. Average expenditure per person on mein holidays in the region is £17, compared with the national everage of £19, but the everage length of holiday is elso slightly lower.

The holiday areas 402. There is considerable variety in the types of holiday accommodation and facilities offered on the coest. The major resort is Great Yarmouth, with its concentration of hotels, cereven and comping sites Smaller resorts such as Hunstanton, Cromer. Lowestoft and Felixstows also provide a wide mage of accommodation, but do not have such extensive emusement facilities. The constline between Cromer and Yarmouth has a number of small villeges which are used for holiday purposes. e.g. Bacton, Hemsby and Caister. This stretch of coastline and that further south towards Lowestoft and beyond have provided sites for a number of holiday camps. Southwold and Aldeburgh on the Suffolk coest ere resorts of a quieter type. The

1) a East Angle Economic Plenning Region plus Heritorishire, Bedford-shire and Essex, expliciting Prontocrops. (Periods of four nights or more

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major Broadlend centres ere congested and the annual number of holiday visitors to Broadland continues to increase and is now probably over a quarter-million extending over 24 weeks, with some holiday activities continuing throughout the year. In eddition to the holiday element, there is the use of its recreational facilities by people

Dying within sesy reach. The supply of holiday accommodation

403. Approximately seven out of ten British holideys ere still spant at the sosside, eithough the accommodation pattern is changing. In coastal aross of Norfolk, for exemple, cerevans account for 60 per cent of the bolidey accommodation. This trend towards the more informal type of accommodation is underlined by the British Trevel Association's analysis of the demand for various types of accommodation in East Anglia. This indicates that in the country as a whole 38 per cent of its heliday-makers are accommodated in hotels. compered with 26 per cent in East Anglie. Twentysix per cent of holidays in East Anglie ere spent in carevana, compared with 15 per cent netlonelly. The Broads, together with the Fenland rivers, give this region the highest proportion (B per cent) of holidays spent on bosts.

The holiday saason

404. One of the economic problems of the industry is to find ways of syaning out the spread of holiday-makers to improve the utilisation of capacity. The Broads are used intensively, often for six months, but carevan sites are only fully used during school holidays, and camping sites for ebout five weeks at the peak of the season. Holiday camps usually stay open from early June to Sentember They are edepting to the developing practice of second holidays by extending their rence of activities.

The holiday industry labour force 406. The distribution of the holiday industry with-

In East Anglie weights its economic importance in certain localities, where it provides direct employment for a substantial proportion of the population and markets for local spriguitural produce. Bace use of the spending power of the visitors, local service industries are well developed to cops with summer demands. In Broadland, in particular, the economy of many of the small market towns is based largely on the holiday industry.

405. The industry recruits sessonal labour from a number of sources both from within and from outside the region. The attractions of this lucrative temporary work sometimes cause shortages of lehour in other local Industries.

Future trends 407. The proportion of the adult population in

Rritzin taking a holiday sway from home stabilised

at about 60 per cent during the 1960s end is unlikely to grow significantly in the next few years. Of these people, only one-seventh go abroad, in the longer term, population growth will neturally increase the size of the holiday metiat.

408. The future of the domestic holiday trade will depend to a large extent on more accord holidays, which in turn will depend on the level of conomic property and scope for leisure. East Anglia is one of the most popular ereas for weakand cottages.

and this demand is reising property values 408. At present the number of oversees visitors staying in the region is small. However the volume nationally is growing every year, and will reach about six million in 1970. East Anglia chould hearest from this.

40. Within fast Anglia, demand for best scorring modeline on the Broade and for converse altas on the coast is likely as given and the coast is likely as demand can be attended by the problems as in bow demand can be attended without demanging the character of the seas. A demine problem size with character of the seas. A demine problem size with character of the seas. A demine problem size with character of the seas. A demine problem size with character of the seas. A demine problem size with coast is hallow fairly as a vivible arms partial country and problems as a vivible arms partial. Carcula facility of the character of the coast of problems and considered spate from the more partial facility of larger and recorded in, where demand is litaly to grow at a very list with, both "what becomes all its litaly to grow at a very list with, both "what becomes all its litaly to grow at a very list with, both "what becomes all its litaly to give a very list with, both

from inhebitants of the area and from residents of urban centres within reasonable trevelling distance.

SPORTS

412. Regional aports councils have been formally actebiished throughout the country, with responsibility for surveying existing facilities for sport and recreetion, escentialning the extent of their use. estimating deficiencies and preparing plane for present and future needs. In the Eastern Sports Council arget, the technical panel, comprising meinly local authority planning officers, has completed its initial appreisal of the quality and distribunion of main facilities which will provide a basis for further investigation and co-operative planning. We maintain lieison with the Eastern Sports Council and we assume that it will be consulting with the new Countryside Commission about complementary interests, such as recreation and soorts provision on waterways and in new country perks.

413. The present restrictions on public expanditive accentuate the need for glaring as much return as possible from costly sports facilities, such as evineming pools, running stacks, sports fields and gymnesis, and we are confident that the Sports Council and the associated authorities and cognitisations will continue to pay attention to the sharing of facilities. This issue is perticularly important in many runal stress.

+ Sea Anglie Sourcetio Planning Region plus Buildiardehira, Hardondehira and Cases.

5 Incomes and Expenditure

4.4. One of the basic aims of regional economial planning is to reduce the aconomic differentials that et present exist among regions in this courty. You available conomic indicates or legional prosperity are personal incomes and household prosperity are personal incomes and household differs from that in the set of less designed differs from that in the set of less described to the courty, county basis, which allows some intra-regional competition.

Ragional incomes
415. Table 30 shows regional differences in

interest to our sincerns (in 1955-66 ones) and content and the content and the content and the content that content the c

416. For the majority of people the important component of personal income is earned income from employment. Table 31 compares the distribution of earned incomes from employment by region. This shows that there are important differences within the Income range £600-£2,000. Below and above these levels East Anglie and Great Britain have a broadly similar proportion of incomes-23 per cent below £600 and 4-5 per cent above £2,000. But between £600 end £2,000. a substantially higher proportion of incomes in East Anglia lies in the lower part of the range than in Great Britain as a whole: in Great Britain 40 per cent are between £600 and £1,100 and 31 per cent between £1.100 and £2.000; In East Anglie the corresponding figures are 49 per cent and 23 per cent.

417. Additional information on eernad income from amployment (excluding self-amployed) has become available from the graduated pension exhame of the Ministry of Social Security. Data are set out in Table 32, and they corroborate the find-

ings made from the Inland Revenue date in Tebla 30. Male earnings in East Anglie ware the lowest of all the English regions and Welse, but above Scotland. Femele earnings in East Anglie were the lowest (equal with Northern Region) of all the English regions, but the facility of the end Scotland.

Incomes within East Anglia 418. Table 33 illustrates the levels of incomes for

the counties in the region. 419. As far as total not income end serned income from employment and self-employment are concerned, the Norfolk average is significantly below

corned, the Norfolk warrage is significantly below that of the other counties. Only in Huntingdon and Paterborough is cerned income from employment above the United Kingdom everger. Table 34 giving Ministry of Social Security date confirms that everage cernings in Norfolk ere well below those eleawhere in the region, with a much wider disparity for males than for females.

Industrial aernings in East Anglia 420. Statistics have recently become evailable giving, for the first time for East Anglia, datella of

male serologs in certain industries. For agricultural sernings, the results of the annual Wages and Employment Enquiry have included. In 1966-67. setimetes of seminos and hours for planning regions. Although the conclusions must be regerded as provisional until results for subsequent years become available, the preliminary analysis in Table 36 suggests that earnings and hours worked in egriculture in East Anglia are below the England and Wales everage, and are generally below other regions. The difference between earnings in East Angilan agriculture and the national average is of the order of 18a-19a, per week; about threefifths of this difference can be explained in terms of a shorter working week; the remaining two-fifths in due to other factors.

421. The earnings figures in Toble 38 taks account of peyments in kind, though no separate regional statistics are available. The national average waskly value of all payments in kind (both allowable items such as cottigas, board and lodging, and milk, valued by the Agricultural Weges Board toestire with non-fillowable items such as

TABLE 30 Types of personal income (before tax) 1965-66*

	Total nar		Ferred In from soil employer (Schedul	***	Berned in from employm (Schedul	ent	Not investre income	
New Standard Regions	1965-66 everage income per cess C	Renk- ing	1065-86 everage income per case £	Renk- ing	1005-66 evenage income per cree	Renk- ing	1905-00 evenge income per oteo	Bank ing
United Kingdom	1,070-8	-	1,033 6	-	822 - 7	-	444-7	-
Northern	809-6	10	1,015 6	6	909-0	2	300-7	11
Yokehire end Humberelde	1,013 2	7	1,042-5	4	000 7		326-9	
East Midlende	1,052 6	3	1,039 7	5	090 7	3	362 - 6	7
Coat Anglie	1,029 3	٠	1,012-3	7	851 - 7		424-0	4
South Cost	1,184-0	1	1,136-9	1	867 - 5	1	693 5	1
South West	1,035 6	4	046 6	9	650 0	8	811-4	2
Welce	910 9	9	875-6	10	964-5	8	301-1	10
West Midlends	1,089 3	2	1,089-1	2	960-1	2	380-3	6
North West	1,032:6	- 5	957 - 6	8	867 - 8	4	320-1	9
Scotlend	1,000-0		1,072 - 4	3	930 -1	10	435-6	3
Northern Ireland	650-2	11	745-6	11	776-3	11	356-0	

provided contains assistant for pairs of event.

Figures come provided the content is accompany, from (CCPS in 1646 etc.).

Figures come provided content is content or community of the content of the content or community of the content or community of the content of the conte because of parents sourced in more than one clear.

7 The Sahanina D. Enhances I and pg (systematic soons are the free room components of strail set lessums. Other components we paralloss. e. In this and other Tables "beerge" leasure is the archimeto mean.

Stunos: Commissioners of Inland Revenue, 1900; Report, 1988.

fuel, lighting and vegetables valued by egittement between employer end worker) was in the year ended September 1966, 6s. 11d. for hired requier workers-2-4 per cent of weekly semings*. This is of course e nominel value and it is possible that the cash value exceeds this. The Prices and Incomes Board in its exemination of the pay of scricultural workers recently looked at this point and concluded to

The evidence therefore suggests that some scriculturel workers but not all, enjoy a nonmonetary adventage over and above the average figure of 6s. 11d. Included in earnings figures as the value of payments in kind. We cannot put a precise figure upon this adventage but we conclude that the everage value is relatively small, certainly insufficient to require any serious modification to the conclusion reached on the basis

of figures of seminar'. Whyse and Employment Enquiry 1988, Ministry of Agriculture National Board for Prime and Incomes, Pay of Ministry in Ag TNECOM Reset for Prime and Incomes. Fay of Modestr in Applicature in England and Wales, Report No. 28, Onced, \$166, HMEQ 1867.

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422. Tebles 38 and 37 confirm that incomes in most industries are comperatively low in East Anglie and that, despite longer hours than elsewhere, male manufacturing earnings as a whole ere lower then in all the regions except Northern Ireland.

Reasons for low incomes in East Analla

423. Table 37 above industries ranked in order of UK hourly earnings. This shows that there were importent differences between East Anglie and the UK in terms of hourly earnings, hours worked end Industrial structure. An enelysis has been made which isolates the relative effect of these components±

424. Average weakly earnings for men in East Anglie were some 9 per cent less than for the

ETTIS were used does for the Flanking Council by the Department of Applied Economics, Combiding, using Sleppi's formula for the Department of Product. How these or More Components fee 7th garantibus of the Trader system (

TABLE 31 Frequency distribution of employment incomes 1965-66*	ution of	employ	ment in	comes	1965-66	•-					X ed case
Process range	Great Britain	North	Yorkshire and Humbonsde	East Midlands	East Anglia	South East	South West	Wirles	West	North West	Scottand
new year	1	9.1	53	9.1	9.0	1-1	1.0	7.1	1-3	1-6	2-1
200 - 200		-	ě	2.0	7.8	**	7.6	8.0	9.9	0	8.5
400-499	7.9	0.0	7.00	7.0	7.5	2.0	9	7-7		2	
689 - 009	3.6	7.8	7.8	7-8	7.7	7	0.0	0 0	-	22	9 4
669 - 669	7.4	7.5		9.9	5	2.0		7			
700-750	-	6.3	9-1	7.0	÷,		99	200	2.0	8.8	
800 - 889	99	9-1	10	9 0	9 6		200		9.0	9 00	25
930 - 399			901	000		9 0	200	8.5	7.0	7.	8.9
1,000 - 1,089							2.5	0.8	7.5	7.1	6.5
100-1389				8.4	0.8	8.9	0.9	9.9	2.0	8.5	4.0
1 200	9 0		0.9	2.9	4.5	4.9	8-3	3.8	9	ė	9.9
1,300 - 1,368	9 9		000		2.5	7-0	2.5	3.7	9.50	+	5.5
1,400 - 1,433		12		9	4.5	1.4	7.7		-	4:0	4-7
1,000 - 1,769	000			8.5	2.4	*	1.8	2.7	3:1	9.0	2-3
0.000 0.000	400	17			-	3-1	1.9	1.4	1.1	9.0	9
2007 - 0007	40		200	9-0	0.7	1.3	80	0	6.0	0	-
3,000 and above	1:0			9-1	7	2.7		=	2	9	1-2
	160	100	901	100	100	100	81	100	100	100	100
	10.670.510	000 000	1 670 300	1071 710	460.400	6.403.160	1,00	725,030	1,351,590	2,262,350	1,570,430
Marfell Married of Carons	831	REG	856	849	300	804		834	380	900	872
I const countille C	621	282	989	621	903	ē		95	99	20	3 5
Upper quartile, £	1,273	1,196	1,205	1,320	225	792	200	287	755	326	302

TABLE 32 Average gross earnings in civil employment*

	Average Earn	ings 1985–66
New Standard Ragions	Maine 18 — 84	Females 15 — 61
Great Britain	1,066	849
Northern	980	509
Yorkshire and Humberside	1,005	611
East Midlenda	1,019	613
East Angille	67e	600
South East	1,176	624
South West	996	620
Wales	999	636
West Midlanda	1,096	613
North West	1,099	621
Scotland	964	624

Das rains to person with at least one constitution satisfies said and at least 48 constitutions constitutions in the regional insurance proceduring year commissions on the first Manday in Manda The servings down from Ministry of Social Security are of a different sets
a Galarsters to place of residence, not place of work.

A Clear give information for individuals refer than set using
a Galars on on residence to an exemption link. (Robin 26, note A.)

Levels of income in East Anglian counties 1964-65 Avenge

Total everega net incoma per caso	isopre from eaf- employment (6chedule D) per cess	Average earned iscome from employment (Schedule E) per cease	Average (net investment income) per case
600	856	630	404
663	860	013	272
813	638	763	264
800	961	784	460
900	061	786	391
1,003	972	868	393
	everage net income per case ses ses ses ses ses ses ses	more repair more repair	

Proces Commissioners of Inland Espanses, 190th Report, 1968. (See Notes to Table 90.) 50

country as a whole. If East Angliens had worked no longer then the netional everage number of hours this difference would have been 10 per cent. The ensiye's showed that the greater part of the difference could be ecopunted for by hourly wage retes which, in East Angile, were on everage about 7 per cent below the national level. The industrial structure weighted in the direction of low earnings (in perticular agriculture) accounts for the remain-

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ing 3 per cent. In other words the unfevourable industrial structure ecoounts for et most only oneshird of the total difference. 425. This enelysis is not quite complete since it does not include workers in the distributive traces.

insurence, benking and finance, and professional end scientific services; nor does it include persons not clessified by industry. As a result, the percenteges of male employees in employment ere not

have Minter of Social Service. TABLE 33

TABLE 34 Average gross earnings in civil employment in East Anglia*

	Average Eers	rgs 1985-85
Area	Meles 18 — 88	Females 18 — 54
feet Anglie	974	509
Cambridgeshire and Isle of Fly	989	513
Huntingdon	1,124	642
Solan of Peterborough	1,236	844
Norfolk	908	600
East and West Suffolk	970	502

*Note the ege groupings are 13-89 was and 18-84 warran, the det to Table 52, the differences married have the are very small. Source: Ministry of Social Security—see Notes to Teble 32

TABLE 35

Earnings and hours of whole-time male agricultural workers For year onding 30th Saptember 1957

Naw Standard Regions	Average weekly semirgs shillings	Avarege weekly hours
Northern	283-7	47-6
Yorkahire and Humberside	298-5	49-7
East Midlands	314-7	80-7
East Anglis	280 8	47-8
South Feet	306-2	49 - 3
South West	310-3	49 5
Wales	287-1	49-1
West Middends	254 - 8	49:8

289 2

England and Wales Zounce: Ministry of Auricultum, Wesses and Employment Enquiry 1988-67.

West Midlends

guite the same in East Anglis end the country as e whole: they are 83.5 and 82.3 respectively. though this would not significantly effect the above conclusions. Recent changes in incomes

426. Although the level of incomes in the region is low compered with the national everage, this one has been nerrowing. The rate of increase in personal incomes between 1959-60 and 1964-65 for all the East Anglien counties was greater than that for the country as a whole, as can be seen from Teble 38.

Expenditure 427. East Anglians cleerly receive significantly nted image digitised by the University of Southempton Library Digitisation Unit

less money income then the UK average. This does not necessarily mean that they are worse off, as prices in East Anglie may be lower. Unfortunately there is as yet no regional price index. However, some information can be adduced from the Family Expenditure Survey, see Teble 39.

40.4

428. Table 39 Indicates that East Anglians spend similer emounts on food, trensport, clothing and miscelleneous goods, but spend less on housing. drink, tobecco, dureble household goods and services. Of this letter group, opert from housing end some services, there are unlikely to be any significent regional differences in prices. It seems probable therefore that the difference in money incomes also reflects a lower level of real con-

sumption in East Anglie.

TABLE 36
Average weekly hours and earnings in manufacturing* and all industries†—males 21 and over (manual workers)

	Average cornings shillings	weekly and pence	Average bours	weekly	Averege serrings perce	hously
New Standard Registe	Manuf, Inde.	All inds	Menuf. Inde.	All inde.	Menut. Inde.	All Inde.
Unled Kingdom	487-7	427-5	45-3	48 2	118-0	111-0
Narthern	426-3	413-1	44.9	46-7	113 9	108-4
Yorkshire and Humberside	405-8	400 1	45.9	46.3	105-3	104-7
Seet Midlands	424-5	417-1	45-3	45-3	112-6	106-0
Fest Anglie	319-7	193 6	46-0	46-7	104-2	101 - 1
South East	450-3	444-3	45-6	45-5	120 3	114-4
South West	422 0	397-3	45 6	45-9	111-1	103-8
Water	445-8	422-6	44-1	45-2	121-3	112-2
West Midlands	455-4	444.4	43-6	44-0	125-4	119 6
North West	425-0	420-6	46-0	45-4	111-7	109 €
Sociend	424 5	415-4	45-5	46-2	111 - 7	109 0
Northern Ireland	353-3	357 - 4	45-0	45-5	102-2	96-1

[&]quot;otherunizating becaming include Industrial libraril or Totle 27, with the execution of other increases and other account of the product of the industrial includes a product of the industrial includes and industrial librarily includes all industrials librarily 27, with the execution of agriculture character 26° Center 26° Center

Main industrial groups:

kers)	mottere m	East	×	'n	5.8	0	20	ö	÷	ė	ě	=	ž	ž	12:	÷		ä	ě	•	ö	-	ř	2
ual wor	Employment stracture m	ă,	×	0.5	2.3	3.6	200	7.	7	7	5.4	-	5.2		10.9	0	8.8	9-5	2.0	0.5	3.7	90.00	6-7	2-7
er (man		East Angle relative to UK	м	201	9	100	102	×	102	102	102	101	22	101	8	*	101	103	æ	ä		160	80	68
and ov	Hours worked	East	Hours	44.7	0.54	47.2	48.2	43.6	2.29	45.9	46.2	6.84	424	5.84	48-1	40.5	- 23	7	9.77	629		44-3	42.5	47.5
nales 21		5	Hours	43.4	8.89	6.14	45.4	45.4	6.29	45.0	46-1	0.25	43-7	6.39	68.3	9.13	9.43	9	2-27	44.7	8-01	44.5	43.7	6.53
hours worked, employment—males 21 and over (manual workers)		East Anglia relative to UK	*		8 8	. 26	2	B	*	8	8	100	901	8	8	æ	8	91	83	8		25	8	8
employ	Needly earnings	P P P P P P P P P P P P P P P P P P P	Shilings	400	1	7.007	417.1	380-6	200.0	387-1	803-8	9-994	238-9	380.3	280.7	388.6	769.4	465-3	329-4	238-8		365-1	210-7	200.5
worked,	,	Ħ	Shillings	*****		40.3	****	480.7	632-0	427.7	7-107	428.7	282-7	418-2	6.03-0	228.2	418-8	438-2	201-2	204.2	1.367	266-1	238-2	231.0
hours		East Anglia relative to UK	м	1	25	8 8	88	1 5	2	2	8	100	100	8	100	G	g	901	102			3	16	8

Angla

between that Angle and Deer Shiele, The Seat Angle Square mins to the your ended September 1997, and the Great Detain Spore to the you

Server of House and Castorys, except for equivalence, where data are from Wayer and Emphyrment Cropsin 1965, Ministry of Agriculture, Extension and Food.

TABLE 38
Rate of growth of incomes* from employment 1959-60 to 1964-65

Lyss .	Total Income par tox one (Schedule E) 1959-02 E	Totel Income per tex ceee (Schedula E) 1964–68	1959-00 to 1954-65 %
United Kingdom	644-2	697-0	34-6
East Anglia	567-1	801 - 1	41 -3
Constrigueltire	597-3	630-1	39-0
Huntingdom/hire†	596-2	663-3	47-7
Norfolk	547-7	762 8	39-2
Suttalk	586-8	793-6	40-0

1100-50 services but 1004-55 industes Sole of Featheringh.

Journal Connissioners of Inland Revenue (1005) and 1100 reports.

TABLE 39

Weekly household income and expenditure 1964-66

	East Anglia	United Kingdom		East Anglie	United Kingdom
Housing Fuel Food Trensport Clothing	6. d. 27 6 26 10 115 1 52 4 37 0	45 0 26 4 118 10 49 3 39 4	Alcoholio drink Tobsoos Dureble household goode Other goode	14 11 19 1 20 3 31 1 23 2	8 d. 17 2 23 9 25 11 29 6 39 6
Total Expenditure	367 7	420 3	Services	39 2	30 0
Total Income	465 5	803 6			
Expenditure so % income	63	64	1		

Sturns: Partily Expenditure Survey date for the years (684-66 grouped. The excepting ever in respect of the exceller regions (like Seat Angle) in high.

Roads

429. Figure 17 shows the trunk road network and the system of inter-town principal roads in the region. 430. The main pattern of trunk roads (i.e. those

make for which the Minister of Transport I be of Minister of

authorities are responsible for a secondary green of principal roads forming a complementary net-work to the trurk road system, linking it with the other towns of the region. Principal roads attest specific green from the Government for approved ceptal work, at the rate of 75 per cent. Local authorities are also responsible for principal reading and the region of the region to the local countryide and entail villages.

432. In 1986, 35 par one of all households in Earl Angla hed el lest one car, whereas the preportion of or owning households in England and Water South & Park Company (1997) and the South Water South & Park Company (1997) and the South South & & South & South & South & South & South & South & & South & South & South & South & South & South & & South & South & South & South & South & South & & South & South & South & South & South & & South & South & South & South & South & & South & South & South & South & South & & South & South & South & South & & South & South & South & South & & South & South & South & South & & South & South & South & South & & South & South & & South & South & South & & South & & South & South & & South & & South & South & & South

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TABLE 40

Car ownership in East Anglia

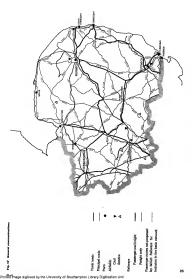
Spayer 10 per cers restored service 1995.	
Total care owned	317,66
Households with 2 or more sers	42,00
Households with 1 cer	227,22
Households	808,40

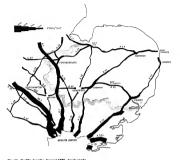
....

increase which I will have to cery in the future. Non-thitistanding the improvements which have already been made the region's trunk roads ere in piece III adapted for the piece III adapted on the piece III adapted and the piece III adapted on th

flows on the trunk road system in August 1965. and a treffic loading diagram for trunk and principal roads in August 1966 is given at Figure 19. With the exception of the dual cerriageway lengths of road, traffic flows ere already generally in excess of the cerriegeway design capacities, and due to long stratches of poor elignment the roads do not come up to the standards calculated to allow treffic to flow freely end give drivers reasonable opportunities to overteke slower vehicles and maintain the epeeds at which they want to travel, thus creeting long lines of slow moving traffic. As these flows are progressively exceeded the duration end frequency of the occasions when congestion occure, and the degree of this congestion, will increase. The inter-urben principal roads are generally less heavily trafficked then the trunk roads.

 POUr referred to in Figure 18 are Presenger Car Units—the basic unit used in expector presentments for reads and junctions.





435. To aliminate this type of delay and congestion entirely, it would be necessary to provide additional road capacity which would be more than is needed throughout most of the year. The Ministry of Transport advises us that on many lengths of road the normal traffic dansity does not create conditions which would give them priority for the expenditure necessary to bring them up to e higher standard

436. Flaure 20 shows in broad outline how the road eystem should improve in the years should with schemes so far appounced by the Government as programmed up to 1970 or in the preparation pool (Appandix 19) for construction in the early to mid-1970s. By about 1970 the A1 should have duel carriageweys throughout the region; there should be some dual cerriaceway on A12 between Great Yarmouth and Lowestoft, on A12 south of inswich, and on various langths of A45 and A11: and most of the remaining trunk roads would be single two-lene roads to a good standard of alignment. The schemes intended to ellevists the worst traffic problems of the towns are listed in

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Raliways

437. Floure 17 shows the basic railway natwork which the Government end the British Railways Board have decided should be retained and develaned. The relivense will provide feet trunk services from Liverpool Street through ipswich, Stowmarket and Dise to Norwich, with connections to Great Varmouth and Lowestoft: from Livercool Street to Cambridge, Ely and King's Lynn; and from King's Cross to Cambridge and to Peterborough. From east to want in the region, the estylces will be from Norwich through Ely to Paterborough for the Midlande and the North, from Norwich to Cambridge, and from inswich to Cembridge with connections to Ely and Peterborough. During the paried to 1991, the existing alactrified line from London to Colchester mey be extended to ipewich in view of the proposals for growth in the ipswich eree. 438. The rapid growth of motor cer ownsæhip end the changing pattern of travelling habite have taken

their toil of the economic viebility of the railways in the region, as a result of which substantial iceses have occurred on meny local services. Some

Appendix 20.



ADDRESS.

and the most impose of "PRINCIPAL RCADS"

The loading factors are broadly based on intertown conditions only

Fig. 19 Traffic leading, August 1996—primary routes

section have been withdrawn. The economies of a manning local arrives arealized from instinct does make the manning local arrange and the properties of the

radios costs. It is radioting the number of tracks used on some notes: but with modum techniques and intereved signalling, singling the track does not lead to a reduction of the route specific. When a service has been withdrawn but the rallway formation senaltes, it would permit re-institution of the track on an or provide capacity if reffice requirements should last justify the expenditure.

40. It is clearly an accompany one of retitional

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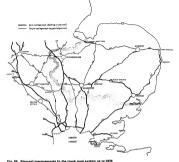
traffic onto the reliverys on possible, and the selfways of Esta Angles are Estimated part in this. On the other hand, road hastlegs is perceively to the other hand, road hastlegs is perceively for short had staffic. Rell freight rettific should therefore concentrate on long hauf between major centres, with the distribution of goods from the centre, with the distribution of goods from the terminals were satisfiabled at Posteborough, Nowthin and powish, they could seasuff in a shift of goods traffic to the rallways. The Ballways found to the country of the country of the country of board has plans in hand for special freightliner

services to various parts of the country. Public passanger transport 441. The growing use of private care, the five-day

wask, and changed social habits, perdouterly the reduction in evening travel, heve compalled a reduction in the frequency of public services and the discontinuance of lightly petronised services. Public transport services by road in East Anglis or Public transport services by road in East Anglis or

Ipswich terminal, which will op-ordinate with

traffic from Harwich to provide through liner train



provided mainly by the Eestern Counties Omnibus Company Limited (who operate about 80 per cent of the road passenger service vahicles), the municipal undertakings of jaswich, Greet Yarmouth and Lowestoric (about 16 per cent) and independent bus operators (about 25 per cent). 442. Satisfactory interconnection of services is

important, and we have welcomed the continuing affects of operators and the Regional Passenger Tensport Co-ordinating Committee and its associated area groups, in which local government representedves are teking part, to assure affective bus/bus and bus/rail co-ordination.

Holiday transport 443. East Anglia's holiday transport requirements

are expected to increase significantly over the next decade. The sees draws most of its holidary-maken from the Midlands and South East, and improvements in road communications would probably lead to a considerable increase in holiday and laisure traffic. Holiday traffic has to use the overloaded main truth's rottes and causes never the contraded main truth's rottes and causes and causes and causes and causes and causes and causes.

congestion at certain times. In addition, a number of routes, notably A149 in north Norfolk, are used by holiday-makers.

444. Holiday travelles by rall use the principal trunt lines of the region, with connections to the larger resorts. Some of the branch lines to amailer resorts, which tended to be little used except by holiday traffic, have been closed. Others are under consideration for possible closure because they are unanswersthy throughout the remainder of

Civil aviation

the way.

445. There are five serodiomes in the region available for civil use, at Cambuldapa, Novwich (prowich, Newmarket and Graet Yarmouth); two helicopter sites; and five military serodiomes, at West Raynhmy, Stradishrill, Beseingbourne, Oskingson and Wattiehem, which permit civil thing.

446. Cambridge airport is privately owned. It has a paved seat-west runway of 6,390 feat, and two amalier grass atrips. The main activity is in the overhaul and repair of civil and military aircraft. but adequate fecilities are available for commercial civil transport operations. British Midland Airways operate scheduled services to the Chennel Islands, and cerried some 4,200 pessencers in 1966-en increase of 60 per cent over the previous year. The total number of pessangers cerried on all flights increased from 5,200 in 1985 to almost 8,000 in 1965. Freight traffic elso showed a marginal increase of some 10 per cent over the

Dyleg school. 447. The perodrome at Norwich has two principal nurveys both 6,000 feet long, one exphalt and one concrete. The third runway, 3,600 feet long end concrete, could be brought into service, initially e centr. The excedrome could be used for holiday

tonnece certied in 1966. There is also a civil service for small elecraft is being provided, but it is planned to provide eventually for 40-60 seet air-

passenger treffic going to the Norfolk coast and the Broads.

448. The civil serodroms at Necton near loswich is owned by leawich Corporation, and is leased to Channel Airways Ltd. It is a cassa elrifold with a landing distance of 3,978 feet. This could be extended to 4,500 feet. Channel Airways operate Aven 746 alrowst from logwich to Paris and the Channel lelands

449. The small gress eerodrome at North Denss neer Greet Yermouth is leased to Anglie Air Charter and is licensed for pleasure fiving during the summer months only. British United Airways have a terminal on this asrodrome for their hallcooter services to the North See oil rigs.

450 Reitleh European Helicopters Ltd. operate a helicopter service to the North See oil rigs from an unlicensed serodrome at Seccion and from a riverside sits et Lowestoft.

RT II

Organisation

452. As elsewhere in Greet Britein, there is no standard pattern for port organisation or for the provision of port services in the region. At the nine East Angillan ports there are 12 port authorities and a number of private wherea and quays. Of the former, two (Lowestoft end King's Lynn Dock) ere under the control of the British Transport Docks Board: six (Greet Yermouth, Norwich, Ipswich, King's Lynn Herbour, Herwich Conservency Board end Wells) ere meneged by verious types of Independent public trust; two ere operated by private compenies (Felixstowe and Harwigh Nevyyerd Wherf); one is operated by British Reliverys (Herwich Perkeston Quey end the Trein Ferry Terminal) : and one (Wiebsch) is the concern of a local authority.

Employment

453. In 1966 the number of port workers in the region (including Herwich) wee ebout 2,700 and se such accounted for about 9 per cent of those employed in transport and communications. In eddition a considerable number of workers in other Industries and services depends on port ectivity. 454. In the employment exchange cross which contain the ports only 1 per cent of all workers are port workers, though this varies from eree to eree from a negligible proportion in Norwich, to 6 - 1 per cent in Felixerowe and 15.7 per cent in Herwich. 455. Lebour reletions in the East Anglien ports ere good, disputse usually being settled without stoppage of work. In 1967 the casual system of employment for dock workers in all British ports covered by the Dock Lebour Scheme ceme to en end. The ports in the region which come under the Scheme ere King's Lynn, Wisbach, Greet Yermouth, Lowe-

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stoft and (privide, At Norwich and Wells port lebour in provided by the user. At Herarchic (Perioscon Quary) the port employer is the British Railways Board, Atthe Novyyerd Wherfart Herarchic and at Felixerove the employer is the private port suthority, and no casual lebour is employer. Relations under the previous Netional Dook Labour Scheme were good at the ports concerned, and this has permitted decessuelisation to go sheed emposity.

Fecilities

456. The number of services performed and facilities provided by a port authority depard to a large extent on the stetutory powers vested in the authority and the type of trade at the port. The trade itself is partly conditioned by the nature of the tides end the depth of weter eveligble, factors which very considerably from port to port. At Wells, King's Lynn and Wisbach the movement of vessels is dependent upon high tides. At Greet Yermouth end Lowestoft the tidel range allows a depth of between 14 and 20 feet of water, while Norwich, 27 miles inlend up the River Yers, has only eight to ten feet. On the other hand the epproach channel to the Heven Ports (Fellisstows. Ipswich and Harwich) hee been increesed to e minimum depth of 25 feet.

Present scale of trade 457. Table 41 shows the number of vessels

handed at the East Anglian ports in 1986, together with the total net registered tonness, 458, in 1866 the East Anglian ports handled 8:1 million tone of freight. The renking of the ports in terms of the total volume of trade handled in 1966 was [pawich, Greet Yammouth, Klogia Lynn.-Harvich, Fellstown, Lowweoth, Knowych, Vibboth and Weils, Table 42 shows the volume of trade handled in 1986 at each port.

499. Appendix 21 shows the main commodities hendled by the ports in the segion in 1986, in the hendled by the ports in the segion in 1986 in Illustriats the Importance of patrolsum to most of the East Anglian ports, pericluslerly to Garricularly to Yermouth end | pswich. Cool is promisent in the trade of [pswich and Norwich (the cost tomate oppearing in the Great Yermouth streffs is almost wholly attribution). Timber end grain

TABLE 41 Arrivals at East Anglian ports in 1966

Part	Number of vessels	Net registered townsp of vessels
Eing's Lynn Wilselen Wells Norwich Gest Terrouth* Futurous Develop Heint Christian Cury and Talin Fany Terrina	1,270 276 28 382 3,467 503 1,747 2,888	453,000 55,400 9,230 76,000 900,000 109,740 945,000 92,000 3,441,300

These Security Experts Models Require Expert select works by the North Sex of Upon for a study reserved.

The American Experts Models Require Experts American Experts of the Horisophie as particularly high, ageing idea to this supprise of a resease present which as tomorphic and both in most higher death highly destine, and party last in this frequency of a sessingly resease which is tomorphic American Experts and the American Experts and America

TABLE 42 Trade handled at East Anglian ports in 1966

		Foreign		1	Coestwiss		
Port	Imports	Exports	Total	Inwerds	Outwards	Total	Total tred
Slogie Lynn	271	194	485	337	81	428	094
Wiebech	79	17	90	35		44	140
Wells		7	15		1 3	3	19
Norwish (1956-67)	65	3	1 65	55	_	55	153
Great Yarmouth							1
(including Norwich)	258	161	429	597	3	500	1,040
Lessentaft		5.2	133	25	2	87	220
Feitsstywe	473	251		55	10	78	501
Inmerich:	410	116	527	1,496	57	1.581	2,105
Herwich	437	365	802	1		1 1	808

house a Figures applied according to the set field length go a number of point, se Stannated III. Appendix 21.

It Norwigh relates to financial year.

- Figure to Well are granthers, between on the values of raids and suited by the point of behind from the steady extensive make by the point of the behind from the steady extensive make by the point of the behind from the steady and the steady extensive has been imposed of a preside relevant by the point and steady with point of the steady extensive to the point and office. The disk resident is harmonic and the advances of the advances of the steady extensive the stead
- Enurse: Heliocal Forts Creandi, Dipast of Port Statistic 1987. Department of Economic Affairs.

are importent commodities or King's Lynn, Whisebo. Lowestoft, and Greet Yermouth. Trede et Welle is confined to grein end fertilisers. Greet Yermouth, cant Lowestoft have brentled from accommoditing the service steriors and supply vasuels which servi to North Sec oil and gas right.

and gas rigs.
400. Table 43 shows the four mein commodities hendled by each port expressed as a cumulative percentage of the total trade of thay port. The Table brings out that a size proporation of the table of the ports is ecousted for by only a few commodities. 461. The division of trade between foreign and cosesvices treffic is eliberated in Figure 21. Nearly elithe costs vices treffic in participation and one.

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Growth of Yuzder, volume and whate ACD. In reach "year was all to be left Applier point except Revoluth have except Revoluth have except Revoluth have except Revoluth have except reached a repid growth in the tomospe of body hardels. Tell-84 44 shows bonespeathandled at each port of the years 1900—50 inclusion. The 1904 best affor eithe power 1900—50 inclusion. The 1904 best affor eithe power 1900—50 inclusion. The 1904 best affor eithe power 1900—50 inclusion. The 1904 inclusion and 1904 including a left and 1904 inc

reduction in tonness handled : during the last three

TABLE 43
Diversification of trade at East Anglian ports (an index of concentration)

				Percentag
index of concer percentage of t	staden by numbe stal 1666	r of commodities h	endled se	Total trade
37 - 3 25 - 8 54 - 3 45 - 6 62 - 5 21 - 5 28 - 5 37 - 5	53-1 50-7 94-6 54-5 90-5 35-4 33-1 61-2	84-7 73-6 100-0 61-0 87-3 69-0 39-7 68-0	72-9 83-9 67-2 81-6 66-7 46-1 74-8	100 100 100 100 100 100 100 100 100
	37 - 3 25 - 8 54 - 3 45 - 6 62 - 6 21 - 6 26 - 5	parcentings of total 1966 37 · 3	percenting of total 1865 37 - 8	27-3 53-1 54-7 72-9 25-9 50-7 73-6 33-9 54-3 54-6 100-0 57-2 54-5 54-5 54-5 54-5 54-5 54-5 54-5 54

Shower Religion Ports Council, Cityan of Part Statistics (RMT, and Department of Europeric Affilian

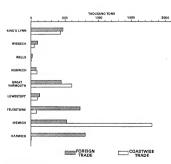


Fig. 21 Port trade 1966

East Anglia ports: estimated volume of trade* handled 1960-66

								200	Date Security (post post
18	1980	1981	1962	1983	281	1985	1986		% change 1560-46
dag's Lynn	603,212	700,007	630,127	670,441	759.904	773,956	894,021	1	+ 23-0
Mittech	87,428	115,335	103,005	73,014	101,612	102,482	139,868	ı	+ 43.0
990	5,000 (assumed)	(pocument)	N/A	N/N	8,000	87800	18,800	ı	N/A
Cost Yamouth (Indieding Norwich)	800,000 (assumed)	(pocasose)	N/A	220,840	1,038,479	1,106,761	1,040,556	i	+ 1-1† (1963–66)
Norwich (grae ending 31st Massh)	216,828 (50-60)	173,463	196,771 (58-10)	217,310 (62-63)	225,986 (63-64)	244,952 (64-65)	(65-66)	(05-67)	- 29 0 (1958-40 1966-47)
Committee	145,015	150,150	115,000	159,401	188,000	220,000	244,223	ı	1-13+
(No. 1361 sol darch lat It golden see (year 1561-64)	247,879	287,944	364,961	373,448	370,737	966,988	815,716	ı	+223-2
gravich	1,428,243	1,519,480	1,650,145	1,890,278	1,729,711	1,870,854	2,113,076	1	+ 46-8
Firmich	451,446	0CI/199	512,000	562,742	686,313	575,886	854,623‡	1	+ 78-24
East Anglis	3,500,000	4,100,000	1	1	1	6,200,000	6.100,0004	1	++ 26.4; +26.8 (1961-63)
Grout Bilbin	1	241,300,000	1	I	1	296,800,000	I	1	+ 25 6 (1951–68)

4000

	-
1200	1968
0	
1301 alla 1300	
nandied	
trade	-
r toreign 1	1961
alue or	
	-
ports:	
t Anglia ports: 1	
ب	1

1961-66 % charge

Imports	Special	Total trade	Imports	Exports	Total
9,457,000	5,639,000	30,285,000	18,687,000	11,598,000	-
1,863,000	283,000	2273,000	1,881,000	000'let	
8,054,000	1,170,000	25,317,000	20,524,000	5,792,000	-
1,360,000	33,000	13,102,000	4,553,000	8,548,000	
17,352,000	5,582,000	62,670,000	35,726,000	16,944,000	
		285,944,000	144,968,000	141,976,000	~
36,631,000	1,574,000	125,815,000	81,332,000	68,483,000	
133,767,000	94,421,000	538,467,000	287,471,000	250,734,000	_

9,224,000 1,463,000 218,188,000 000,171,000

3,631,436,000 71,574,000

> 4,396,138,000 133,767,000

were there has been a substantial drop in the number of trading vessels, and the discontinuence of roal-case manufacturing at Norwich has meent a enformatiei reduction in coel cercoes.

463. East Anglie hendles approximately 2 per cent of Great Britzin's total trade, in terms of volume. In terms of value (foreign trade only-no customs data for coestwise trade), the East Anglien ports account for approximately 5 per cent of the foreign trade of Greet Britain. Table 45 shows the value of coade handled (foreign trade only) for the region and the United Kingdom in 1961 and 1966. During this period the value of the United Kingdom's foreign trade incressed by 21 · 7 per cent; the corresponding figure for the East Anglian ports was 146 7 per cent. Between 1861 and 1966 the value of the United Kingdom's foreign trade incressed by approximately £1,750 million, and it is of court significance that of this increese 16 per

cent was accounted for by the East Anglian ports.

Table 46 ranks the Feet Applien ports eccording to

country's ports which conduct foreign trade.

the value of goods handled compared with all the TABLE 46 Ranking of East Anglien ports in terms of value (foreign treds only) Out of total of 98 UK ports which conduct

Herwich Felisatowe

King's Lynn (Including Wells) Greet Yermouth (Including Nerwich)

increasing services and future prospects

484. Comperetively recently most of the ports in the region have commenced, or increased, requier general cargo services with the EFTA/EEC countries with goods of relatively high value. Table 45 reflects, for exemple, the growth in general perco treffic, perticularly on the export side, et Lowestoft: in 1961 this treffic was negligible, but with a new requier service to Rotterdem it had essumed some significance by 1968. Herwich and Fallsstows handled over threequerters of the value of all foreign trade passing through East Anollen ports in 1966. Herwich eccounted for more then helf the regional figure, and 50 per cent of its foreign trade was in mechinery

and transport souloment.

465. Professor K. Gwilliam. In a study of the Haven Ports* forecast a very reply increase in treffic through those ports, perticularly in the next few years. This growth was seen to be prodominently in the short ere tredes with Western Europe end Soendinevie where frequent services in felrly small vessels with guick tumround are

economic. 466. It is essential that the good labour relations in the region's parts continue. In order to secure the meximum possible return on the substantial sums recently invested in the expension end modernisetion of port fedibles. At Herwich end Fellustows there are container and roll on/roll off facilities on a considerable scale. There is a roll on/ roll off service operated at King's Lynn to Hamburg. A mill on/roll off harth has been completed by the nort authority at Great Yesmouth. Some use of unit inerie is merie at inswich, and the nort has squaht Ministry of Trensport approvel to extend its con-

teiner and roll on/roll off facilities. 467. The Chennel Tunnel may divert a proportion of the general merchandise traffic from the ports on the Stour-Orwell estuary, elthough bulk treffic from these ports is unlikely to be effected. 466. In July 1866 the Government declared its Intention? of re-propriating the ports on the basis of public ownership. In July 1967 the Government issued a 'working document' containing proposale to bring 72 parts under the control of a National Ports Authority and elabtrealons portsuthorities 1. The proposed re-prospisation will effect all the

region's ports except Norwich, Wells, Herwich (Perkeeton Cusy) and Harwich Newword Wharf. *A Plies Souly of the Havan Parts of Abrudol, Fallistows and (predict, research) for the East Anglia Economic Hanning Gouneti and completed

*Transport Policy, Creed, 3067, HSI80 1869. AWARDS desurant to early sector), Ministry of Transport, 1667.

96

448. East Anglis has a low energy derared—interest the lowest of every region in the coursey—end are capital energy consumption in items of coal per capital capital coal per capital capital

TABLE 47

Electricity

pettern and size of consumption in the region in 1967, and primary fuel usage for gas and electricity production. Figure 22 shows existing and proposed sources of power supplies.

and the substitution of th

0.35

Fuel and power consumption in East Anglia 1967

	Domestic	A PAROLET NO.	Other	10180
Solid funis (m. toss)	0-83	0-74	0 - 29	1-05*
Gen (er. therms)	42	0	12	63
filectricity (m. kWh)	1,831	1,023	1,095	3,040
Oli (m. tone)	0-12	0.60	1-40†	2-03

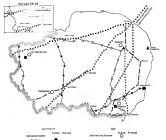
1500 kides transport furth, but each dee fusie used for making gas and electricity.

TABLE 48

Coal and oil used for gas and electricity making 1967

	Estimates				
	Coel m. sons	Oli m. toss			
Gen	0-25	0.09			

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Superpid Lines Fig. 22 Power supply network gongumerion (37-K ner cent Linited Kingdom) and

24-6 per cent of oil consumption (38-3 per cent United Kingdom). 471. Gas is provided by the Eastern Gas Board, electricity is produced by the Central Electricity Generating Board (CEGB) power stations and dis-

tributed by the Eastern Electricity Board, and coel is brought in by reli and road from the Midlands and Yorkshire coelfields with some coastel traffic from the northern fields. Oil products are also conveyed from outside sources, principally the refinarise in

the south. Electricity supply

472. Electricity in the region is transmitted over the CEGB and system from its nuclear power station at Sizawall, its oil-fired station at Great Yermouth, its coel-fired station at loswich and

smeller stations in Norwich and Paterborough. Sizewell, a Magnox type stetion with an output of 600 MW is by far the largest of these and began operating in 1845. An application for statutory consent to build a second station on the site has

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been made. It is to be of advanced gas-cooled reactor design with a total output of about 2.500 MW. The CEGB is interested in obtaining a War Department site et Denver (some ten miles south of King's Lynn) for a future power station Stations on these sites would fully take ecount of the future needs of the region. The present conventional stations provide about three-quarters of the regional gongumetion, and the nuclear station ecocunts for the belence with a large 'export' out of the region. The Eastern Electricity Board's pro-

The gae industry

gramme of rural electrification has been completed. 473. This has been lergely moving from coel to oil for one making. The main production at present is from an all reforming plant at Norwich, using propene imported through Felixstows and delivered by pipeline. Coel gas making, being much more expensive, is being phased out.

North See gae 474. By far the most significent development in the energy field has been the discovery of natural gas under the North See (see Figure 22). 475. Following the first strike in 1955 in the Wast Sole Field, 46 miles sest of the Humber, a bigger discovery was made in 1955, 30 miles north-cost of Cromer, now known as the Leman Sank Field. Further discoveries were made off the Eest Anglian coast in 1966 at the Indefetigable Field, some 55 miles offshore, and at the Hawatt Field 15-20 miles off the coast. Submarins pipelines have been laid from the Leman Bank Field to a landfall terminal at Bacton, and from Wast Sola Field to a terminal at Essington in Yorkshire. A second lins

to Bacton is to be leid for production contracted for by the Gas Council from the Hawatt Field. Gas is already coming sahors through the pipeline from West Sole and is being fed into the national methans grid near Sheffield. Further supplies from the North See should be flowing through the treatment plant at Bacton and Into the existing methens grid near Rugby before the end of 1988. Plans for the exploitation of the Indefetigable Field ers being considered. Great Yarmouth is the supply and service port for drilling and pipeline operations in the three fisids off the Norfolk coast.

476. The 1957 White Paper on fuel policy* put the recoverable reserves of gas in the fields siready determined in the North Sas as 25 × 10th cubic fast. This places the United Kingdom pert of the North Sas Continental Shall amongst the major gee bassing areas in the world, though the known resources in Holland, Algeris and North America are bigger. The meanves are stated to be anough to supply gas for at least fiftsen years at a rate of 11.000 million therms a year, about two and a half times the present national gas consumption of

over 4,000 million therms a year; there is a prospect that the supply could rise to over 14,000 million therms a year by 1975 477. It is estimated that by 1970 natural gas will ment over 5 per cent of the national energy demand of 310 million tons of cost squivelent. rising in the mid-'70s to about 15 per cent of the

squivalent.

national damand of 350 million tons of cost Utilization and pricing of North Sea

one on a funi

478. Present policy is to meximise aconomic gain by observe conversion of the 'oramium' industrial and domestic consumers from town gas to natural one over a paried of about ten years. The White Paper confirmed that the Gas Council will still natural gas to all area boards on the besis of a uniform tariff, subject only to variations for load factor, because transmission costs within Britain are so low that differential tariffs for gas coming from different sources are not worthwhile. Prices to consumers will, however, continue to reflect differences in the eree boards' distribution and other costs, it is understood that all area boards are planning for rapid absorption of natural gas to

SCHLOSING DWW. 2635, HWSD 1861

offset their capital costs of transmission and conversion: the Eastern Board's programms is to convert the whole region within a period of about seven years. During the serly period, natural cas will be used as an anricher for 'lean' gas and as a feedstock for existing gas plants, and also for direct supply to new industrial consumers and new building districts.

479. Therefore East Anglie will be able to obtain this primary fuel at a cost similar to other molone whereas in the post the region has hed to pay heavy extra costs for solid fusis and marginally higher costs for all. But there is no sign that provlmity to the get fields will give East Anglis advantage over other regions in the price for ose. nor even that individual firms or towns will benefit by balon close to the daysloping pinelins odd 480. In any event, fuel costs are not overriding location factors for most industries, which will continue to be more concerned with lebour supply and communications with raw materials, supplies and markets. We conclude that East Anglis doss not offer new fuel-cost adventages to fuelintensive industries such as metal manufacture. chamicals, esmant, and pottery and class.

Future devalopments

481. Foregrets of further development are sxtramaly difficult until the full extant of North Ste gas reserves are known and in the absence of a basic basch price. The White Paper suggested that In order to build up supplies quickly to the chosen displetion rate, some gas would have to go to the bulk industrial market where resource savings are likely to be lower then in the premium markets. The White Paper size draw the broad conclusion that comething over twice the level of reserves so fer discovered would need to be assured before, from the point of view of resource savings. It would be desirable to sell one extensively to the bulk merket. Meanwhile, under the 1984 Continental Shelf Apt, the Minister of Power may only give his consent to the direct supply of gas for use as a fuel If he is settefled that the gas was offered first to the gas industry at a reasonable prior. Even then, sales

are only permitted to industrial consumers. 482. North See gas for non-fuel use may be supplied by the gas industry or, with the Minister's consent, direct supply may be provided by the producers. If its price and quality were estisfactory, natural cas could be used as a chemical feadatock for such basic obsmicals as ammonis, sostylena and methanol. Ammonia, the basic chamical for production of fartillears, is at present mainly obtained through the nephtha process, However, we feel that if natural gas is used in chamicals production it may be that the pettern of large and completely Integrated complexes centred around major oli rafinarias would continue, because oli derivatives offer a far wider range of feadstocks then natural gas. Even if natural gas were economic for some processes, the petrochemicals industry would be likely to remain centred around the preent oil refinery elees with their deep-water eccess for large testers at direct plyelines were eccornic, the east coest alter at Teceside, humberside and possibly d'annementé would set le be lotter fervourel locations then entry bout set angle, unless firme decided that production plents et Geset Yermouthe or Lowestoff would be commarcially viable. There are no elzestals chemical

plents there at present. So far there have been no proposals of this sort from the chemicals industry.

Conclusion

493. Future supplies of all fusis and power ere in the Council's view likely to be available to meet on time any foreescable demands from developments in the region. 484. Until river authorities have completed the statutory surveys of their arees under the 1983 Water Resources Act, the best astimates of the water needs and resources of East Anglia until the and of the century are those in the 1966 report of the Water Resources Board*. This report estimates demends for public water supply, taking into account foreseen population growth and migration including proposals for New and expanding towns. and damends for industriel and agricultural purposes. The industrial and agricultural damands are additional to the public supply of weter and involve direct access to rivers or private ownership of horsholes. The Board also considered known and potential resources and made recommendations with a view to safeguarding water supplies during the next decede and investigating proposals for meeting demands to the turn of the century. The

report indicates that although East Anglis lein the didat part of the country, it should have enough weter to meet demends until the year 2001 with some to appea for the deficiency zone to the outst and west. 485. The region lies almost entirely within two river entitlety seess; it cowers the East Suffolk and Norfock River Authority seess and part of the Great Ques River Authority area. Peterbrough is within 1990.

the Walland and Nane River Authority area. The Grant Quee River Authority extends its boundaries wall beyond the East Anglie Region into Badfordshire and covers an area that will include the New town of Milton Kaynes, end the Essex River Authority overlaps the regional boundary. River authority gross do not therefore synchronise with aither regional boundaries or local authority adminlatrative areas; they are based on catchment areas. 488. The Water Resources Board report works on the basis that by the year 2001 the estimated population in the authorities' erees will be elmost twice the 1984 population, while in the same period estimated water demands will more than trable. The public supply demand forecast, which tekes into eccount increasing consumption per head of population based on previous growth trends and estimates of future population supplied by the Ministry of Housing and Local Government.

487. Industrial requirements were reliculated by considering the direct devenance of privately owned business not taking supplies from the public mains and those of the Central Electricity Cannesting Board. Forecasts for the future in relation to private industry were beard generally on an essumed growth rets of 4 per cent per annum. Electricity demands are expected to increase visitive.

is illustrated in Table 49.

TABLE 49 Public water demand forecast

*Water Superior in Steam Story England, HMSD 1966.

River surfacility eros	1964		1961		2001	
	Pepulation 1000	Average delly demand reg	Population 1000	Average daily demand mg	Population 1600	Average daily demend mg
Greet Dues	980	40	1,310	107	1,000	171
East Suffolk and Norfolk	770	31	930	00	1,210	62
Total	1,730	60	2,240	163	3,110	263

in the 1970s and 1980s and those must be met by building new power stations. Demends for water for cooling purposes will increase correspondingly. 48B. Apricultural demand fails into two general classes: for spray infgetion, and for general farm uses, it is not expected that there will be env substantial increase in the latter type of demand, and such increases se will occur will be covered by the connect allowance for increased public water sumplies. The Water Resources Board report concentretes on the demand for sprey infastion. For unrestricted growth in the growing season the region has a minfall deficiency varying between two end a helf end five inches for different crops. This can represent an impation need of up to 100 000 gallons per age. Judged on the agreese that might benefit, the theoretical daily demend for weter probably approaches the domestic water requirements at the peak of the crowing essent. The Board considered spray Imigation demand for "low value" and "high value" crops separately, "Low value' crops make an effective demand only when water is available for abstraction directly from inlend waters during the Irrigation seeson without

intend watere during the infgation seeson without consavation works, but 'high you'c oney lattify the pevialon of conservation works, groundwater abstraction end, where necessary, the transiter of water from other areas. Regard was also paid to methods of supply, which fall largely into the following three cetispolise:

e direct electrication from neetly inlied works depending upon dry weether river flows:

depending upon dry weether river flows;
b ebstraction from boreholes;
c abstraction from inland waters (or boreholes)

in winter for storage in reservoirs for summer use, or use might be made of groundwater storage by depisting the groundwater seeming and providing companiating borsholes to

maintain stream flows in dry weather. Both the Greet Ouse end Elect Suffek and Nerfolk River Authority areas, which are without dry weather flows available for abstraction from inland wates, will have deficiencies which must be mat largely by local farm scoreps. The Greet Ouse erre deficiency must alternatively be set against the about needshifts of miser surface or occuridwater storage schemes in the area. In the last Sufficie and Northick sees some edictional direct groundwater abstraction will be possible, and driver requisition by committed groundwater use might support number abstraction, particularly in Northick. 408. In order to plan human support such as local nas coductional flexify deficiences by compression so the support of the support of the support support support support water supplies are the differences between submissional supports and submissional supports submissional submissio

authorisad reacutes and estimated determine strar telling account of non-tenifireable surpluses and the diditional resources relating from no-use of effluent. The deficiencies spresent the further amounts of wetter which will have to be provided for public supply. For industry, deficiencies are not quantities after water returned to the rivers by industried establishments has been siden into account. The combined future water deficiencies are authorized in Table 50.

460. It is expected that the region will be cable to make these disclinesies as well as the Infrastron needs by the explicitation of its own resources, and infect make were available for export to edjoining cross of chortage. To meet immediate needs within tergion than an enumber of exhauster to end within tergion than an enumber of exhauster for new boarboles and disect abstraction from fives. To growth one of the expectation of the provision of some processing of the provision of some office of some control of some con

would apport water from the sex; both involving, the development of the water resources of the Gentel Date Balls. The territies of water to Steas by Gentel Date Balls. The territies of water to Steas by Gentel Date Balls. The territies of water to Steas by Gentel Date Balls. The territies of water to Steas be a substantial of the Steas Arrays from which it would be betterested Steas of some end put it does a design stronge resourcies for the public supply, has been provided for in a Bill row below Revision of the Steas of the Steas

TABLE 50 Future water deficiencies

River subsofty area	(to neered fings)			
	1971	1981	2001	
Great Oues	20	66	126	
Enst Suffolk and Norfolk	6	16	40	
Tetal	75	70	105	

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pumped from the aquifer to augment river flows, thereby making more water evallable for abstraction from the rivers.

492. The Weter Resources Board is now cerrying out a desk study of the Wash Berrage project end the outcome of this end early future full-coole feesibility study would determine the pettern of development of the water resources of the executive towards the end of the century.

Countries and the Colony.

Countries are the col

metry in a development of a pure storage actions deviating its supply from the filter (digital) must develop the certain control of storage resource in involving the certain color of storage resource in cholorook (in the Essex River Authority seek), pouvided the proposed reservoir site is estificated, "Parliminery involuption has allowed no circumciation of the site is now in progress with the full support of the river estimation consented. After 1981 in will be necessary to meet the increase in 1981 in will be necessary to meet the increase in of the ESP values scheme, after the second stage.

ASA. Investigation into dessilication indicates that the cost of dessilical voter treated and delivered to econvenient distribution point will be about twice the cost of weet from convenients of the cost of weet from convenients of the cost of weet from convenients of the cost of t

10 Housing

The housing stock 495. In 1967 there were just over one and a half million people living in the region, occupying sather more than half a million dwallings. There is relatively little sharing of dwellings by separate families or overcrowding 496. Table 51 above the pattern of house tenure

according to the 1966 census figures. This pattern differs from that in England and Walso in the high proportion in the 'other tenures' cetegory, which is a reflection of the relatively large numbers of agricultural tied cottages, tenent farmers and service merriad guarters. There were proportionately more owner occupiers and fewer council tenants in East Suffolk and rather fewer owner occupiers and more other tenures' in West Suffolk.

Progress in housebuilding 497. Dwellings built between 1945 and the end of

1987 totalled 210 831, 105 770 for public bodies (mainly the local authorities) and 105,161 by private enterprise. From 1961 to 1967 the annual rate of completion of both council and privately owned dwellings nearly doubled. At the end of 1967 about 37 per cent of the dwellings had been built aince the second world wer.

496. Details of the numbers of dwellings started and completed between 1961 and 1967, expressed also so a percentage of the total for England and Wales are alived in Appendix 22, 6y 1967 about 5 per cent of all houses and flate built in lingland and Walse were hallt in Fast Anglis. This is equivelent to a rate of just over 11 per thousand of the population in the region, compared to 7 per thousand for England and Wales. The higher rate of housebuilding in the lest few years is in part due to the additional housebuilding taking place in the expanding towns to accommodate Londoners, but elso to a significant increese in housebuilding for

CONDITION OF DWELLINGS 499. Unfit dwellings. A house is statutorily unfit

private ownership.

for habitation if it is so far defective in respect of repair, stability, freedom from damp, natural light-Ing. ventilation, water supply, drainage and senitary fecilities and arrangements for cooking. preparing and atoring food or for the disposal of weese water, that it is not receonably auttable for occupation. Some 19,000 of the 770,000 houses estimated in 1965 by local authorities in England and Wates to be unfit were situated in East Anglia. This floure represents about 2.5 per cent of the national serimate, whereas liest Angile's population comprises 3-2 per cent of the population of England and Wales, Looked at in another way, the number of unfit houses was about 3-5 per cent of

TABLE 51 Percentage distribution of tenure by households 1966

			HUCK.	
		Ren	Rented	
Assa	Owner	Council	Poleste	Other
England and Walsa East Angla Cambridgeshire and lale of Ely Harringsbrahire and Paterborough Norfolk East Division.	48 47 48 45 45 53 41	27 26 27 27 27 21 21	18 18 17 16 13 13	5 10 10 10 10 8 14

the region's housing stock. On the besis of the 1868 of them, there were in the region had more than 1,500 until houses: Reverbic, Chemicings and King 1 year. Nervisine sessed 0.7 28 per cent of 12 housing stock as with C. Gemicings and 2.5 are cent of 12 housing stock as with C. Gemicings and 2.5 are cent of 12 housing stock as with C. Gemicings 2.5 are cent of 12 housing stock as with C. Gemicings 2.5 are cent of 12 housing stock as with C. Gemicings 2.5 are cent of 12 housing stock as with C. Gemicings 2.5 are cent of 12 housing stock as well as the course, 11 housing stock as well as the course, 11 housing stock as well as the course, 12 housing stock as well as the course of 12 housing stock as well as the course of 12 housing stock as well as the course of 12 housing stock as well as the course of 12 housing stock as well as the course of 12 housing stock as well as the course of 12 housing stock as well as the course of 12 housing stock as well as the course of 12 housing stock as well as the course of 12 housing stock as well as the course of 12 housing stock as well as the course of 12 housing stock as well as the course of 12 housing stock as well as the course of 12 housing stock as well as the course of 12 housing stock as well as the course of 12 housing stock as well as the course of 12 housing stock as well as the course of 12 housing stock as well as the course of 12 housing stock as well as the course of 12 housing stock as well as the 12 housing stock as well as the course of 12 housing stock as well as the 12 housing stock as wel

cleared 50 per cent or more of the dwellings then estimated to be unif. On the other head on mobbe of submobiles have undestaken little desertion with little distriction of the control of the control work. In come districts the number of the other tent of the control of the control of the control lasty those which estimated more then 500 unit wellings in 1985, have a sizuable producer submobiles and the control of control of the control of the control of or closed from 1965 to 1967 in the region exten contribution to the neithors in deservoir deservoir deservoir controllation of the neithors is the contribution to the neithors is the controllation of closed from 1965 to 1967 in the region exten contribution to the neithors is not deservoir deservoir controllation of the neithors is controllation to the controllation of controllation o

progremme is given in Appendix 23 501. Look of basic amenities. One indicator of the quality of the housing stock is the extent to which households have exclusive use of the three besic amenities of hot weter tap, fixed both and inside water closet. At the 1966 census 354,000 (70 per cent) of East Anglian households were in this position. The rate was slightly below the sverage for England and Wales. Further englysis (see Appendix 24) shows that, whilst East Anglia's urban areas were only slightly below the netlanal average for urban areas, the region's rural areas compared very unfavourably. Two noticeably illprovided areas were first a compact Fenland area central approximately on Wishach, and secondly en extensive beit of rurel districts reaching from north Norfolk into East Suffolk. In these erees only 63 per cent and 59 per cent respectively of all households had exclusive use of the three basic

502. The proportion of households with exclusive use of the basic omenities is influenced by the extent to which dwellings are shared, although this is not an important factor in East Anglia. However an alternetive criterion is the extent to which basic emenities are absolutely lecking. By this etandard Fest Anglia as a whole compares even less fevourebly with England and Wales, Some 100,000 households (20 per cent) lack hot water tep or fixed bath, end 40,000 (8 per cent) have no weter closet. The difference is especially merked in the rural eross where the proportions of households without hot water, fixed both or any sort of water closet ere roughly double the national everages for rurol crees. The Fenland cree shows up bedly on this score, but worst of ell is the belt of rural

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emenities.

districts from north Norfolk to East Suffolk where one-third of all households lack is hot water top or fload both, and one-quester have no water closer. In the lister pert of the region the problem is conflied to the rurel districts; by contrast meny of the toware only or high standed of provision, 503. The swarage domestic rateable value in the reaching lack EST have see 117,000 houses fingarky.

queries of the stock) with a messable value of less than 250. Meany of these are clied notizes, though comprehensive information about the specific development of the spe

Improvement of dwellings

504. Improvement grents to meet half the cost of improvements up to certain mexima are paid by local authorities to owners of houses with a life of at least fifteen years. Owners have a right to grants to provide the basic emenities of bath, wash-hand basin, hot and cold water supply, inside water closet and food store. Grants for conversions and for improvements to a higher standard specified by the Ministry ere made at the local authority's discretion. The Exchequer contributes three-querters of the amount of the grents paid to private owners. Local authorities receive Exchequer contributions on a similar basis for improvements to their own houses. Details of the number of dwellings improved with the eld of grents are given in Appendix 25. In April 1988 e White Paper* was published setting out the Government's proposals for legislation intended to encourage a greatly incrossed drive on the improvement of extering substenderd houses and their environment.

605. Local councile ere given powers to require the improvement of senanded weellings in certain bei improvement of senanded weellings in certain chromatences under the 1884 Housing Act. These provisions are generally more suitable for conditions in the Israper towns with ereas of obsolescent development. By December 1985 Prive East Analysis authorities had reported to the Ministry that they had declered 131 improvement areas: 8 usy 61. Edmunds (2), Wabbeth (8), Felixstowe (2), Coeford (2), Seocles (1),

Future housing requirements to 1981 508. Awa two and two development. The New two schemes at Peterberough and lowelsh will be either peterberough and lowelsh will be sufficient to the summary of the summary to the summary of the summary of the summary development at the built. Further schemes of two pesent under conditivation may represent a need for another 15,000 houses. In broad terms, the May and expending tourier many a demand for May and expending tourier many a demand for house for the summary of many summa

ment to other places. The population of the region *ON House Into New House, Cond. 2002, HARD 1995. is likely to increase through the natural growth of the existing population and through voluntary migration by 170,000 from 1966 to 1981. The number of houses required to meet these needs may be of the order of 60,000.

508. Rophosment houses. The difficulties of sessing the condition of East Anglis's house processing the condition of East Anglis's house peer substantially more than 100,000 houses who cought to be improved or repleced by 1881; possibly 20,000 houses should be demolded and repleced, bearing in mind that the movement of labour from earlisalities to urban employment labour from earlisalities to urban employment.

of labour from egriculture to urban employment may not shweys cell for rehousing in the same locality.

1009. Housing shorters. The 1966 census showed

that some 8,000 households did not have a separate dwelling of their own. Although this is only a rough messure, it suggests that the resources needed to ded with the housing shortage will be very rainel compered with the resources needed for improvement, renoved and growth. BIO, Conchidance: The best estimate we can make of the total number of new dwellings which may be needed for all purposs by 1985 is of the outlet.

of the total number of new dwallings which may be needed for all purposes by 185° lia of the order of 150,000–200,000 in edelicine, securit 100,000 existing dwellings should be improved. The amount of new construction is within the especitly of the building industry on the bests of what hee been schellened in securit year. The emount of improvement work suggested would, however, be rether creeter.

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11 Education

511. Education in the region is ediministed by the fine country broading countries, which we country broading countries which are not education exhibitrities in edifficient which are loose education exhibitrities in edifficient countries. The editor of the country countries c

Primary and secondary education 512. In the primary and secondary sectors the

standard of accommodation, particularly in some rurel erece, is not always all that could be desired, though the problem of rurel echapie hee been teckled urgently and successfully in some erees. Very smell rurel schools, which were et ons time a feature of the region, are comparetively expansive to run end admetimes difficult to staff edequately: many ere now being repleced by lerger units. Despite restrictions on capital investment, a good deel has been done to replace or improve old schools and provide new ones for the expending population. Over the lest five years 40,000 echool pleces have been provided, representing about one-sixth of the ourrent school population. Reasonably flexible arrengements exist for pupils from one authority to use the facilities of others. though some authorities, particularly the smaller ones, sometimes provide fecilities themselves which could be made evellable to them more economically by neighbouring authorities. 513. We understand that there are verying degrees

513. We understand that there are verying degrees of staff shortops. The pupil-scene ratios in both of staff shortops. The pupil-scene ratios in both primary and secondary schools see a little more fevorumble than the nestional exverge. This is entributable pertly to the extensive use of un-qualified steachers, which is likely to have a generally adverse effect on stenderds Some heads of schools have joined signature of set that the qualified steachers of since the property of schools have given to give that un-and such course have proved very useful. Most and such courses have proved very useful. Most

euthorities seem to find it perticularly difficult to steff infent schools and clesses, and many of the younger women teachers especially er unwilling to work in smell and remote village schools. 514. A great deal of experimental work is telling plose in the primery sector. Authorities ere giving

e good deal of support to the verious echanne of ourstoulum development sponsored by the Nuffield Foundation for Educational Research. 818. Plans for the reorganisation of secondary education stone reorganisation of secondary education stone group comprehensive lines see wall edvanced. Four authorities' schemes have bean soccepted and croposels for the remainder are secondary.

codiposetal spokenistic or extended as a consideration of Education of

516. As in the primary sector, most local education authorities ere underteking experimental work designed to keep secondary school curriquie in tune with up-to-date ideas, and some schools ere elready earmarked to take part in triels of the Nuffield Secondary Science Project, A few schools are experimenting with work experience for their fifth-year pupils, and in some parts of the region the increasing involvement of the Youth Employment Service in the career decisions of the older pupils is to be welcomed. An encouraging sign elso is the good co-operation which exists between meny schools and the colleges of further education. 517. The provision of secondary education by independent and direct grant achools is not insignificent, though there ere proportionately fewer of them then in other regions in the south. The

region contains two of the few maintained board-

ing schools in the country.

518. A disturbing feature of secondary education is the extent to which the region legs behind the netional everage in the proportion of pupils

staying on at school beyond the school leaving age (see Table 52); a larger proportion of pupils

TABLE 52 Percentage of pupils staying on at maintained schools beyond the statutory school leaving age*

	Jenury	Jenney	lecrease in persentages
Age	1950	1987	1900-67
16	25-3 (34-4)	39 7 (46 6)	13 4 (12·2)
16	12-9 (17-2)	21 -0 (26 -6)	6·1 (0·3)
17	5-8 (5-5)	10-1 (13-7)	(6 2)
18	2·2 (3·0)	3 3 (4·6)	(1-4)
19	0-3	0-2 (0-4)	Ni-(degrees (0.1) of 0.1)

do not complete their fourth year of secondary education and leave school without asining any formel qualification. Therefore, when the school leaving egg is releted to 16 in 1972-73, a higher proportion of edditional school pieces will be needed then in other ereas. Generally, the implirations of this problem ere racognised by local education authorities, and several schools are experimenting with courses likely to interest and hanetit pupils not of an academic turn of mind. 519. The exemination successes of publis who inft achool during 1965-66 ere shown in Table 53. This shows that the proportions of school leavers geloing various levels of GCE guslifications were significantly lower at all points than the corres-

*Region in breckets show national averages.

nonding petional figures. This suggests that in East Anglie early leaving is not confined to the less eNe nunils. 520. The gredes obtained by candidates in the new CSE exemination system in the East Anglia Examination Board area" are generally in line with those obtained in the rest of England and Wales in the 1967 exemination the number of condidate/subjects emounted to 30,666, and in only 9 per cent of entries was it impossible to award one of the five grades of schlavement. As

in other perts of the country there has been a tendency to ettach too much importance to the gaining of grade 1 passes in the CSE examination. This is understandable since the grade is accepted by most places of higher education, professional bodies and employers as the equivalent of a pass st 'D' level in the GCE exemination, but the examination was designed primarily to meet the needs of candidates unable to face the more restricted and ecademic syllebus of the GCE exemination, and its purpose is in some danger of defeat unless grades other than the highest *The size covered by the East Angle Exeminates Sound includes Reductions and an expense statistics are evaluable for the Secondar Planning August.

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secure a prester measure of acceptance by employers and places of further education.

Nureery education 521. Since the second world war there has been

s virtual embergo on the establishment of new State nursery schools and classes in all parts of the country, lergely because of the shortege of building resources and qualified teaching staff. A considerable expension of nursery provision would be highly desirable. the region is largely the concern of the liest Anglie

Eurther education 522. The countdination of further education in

Regional Advisory Council for Further Education. whose chief functions are to escertain the needs of industry and commerce for vocational education and to advise local education authorities so that the necessary provision can be made with the greatest officiency and without duplication of effort. The Council covers the northern parts of Sedfordshire, Essex and Hertfordshire, in eddition to the East Anglie Economic Plenning Region. and provision is planned in the context of this becar eree. The arrangements provide for free Interchenge of students between authorities on all advenced courage.

523. There are 19 colleges of further education in the Economic Plenning Region, Five are specifically for egricultural education and enother four specialise in est. The remaining colleges provide the normal range of technical and commercial courses at the verious levels, though some elso renyide courses in egriculture and ert. Of the general colleges the four et Peterborough, Cembridge. Norwich and inswich ere area colleges and provide the bulk of the higher level courses for full-time and sendwich students and e wider range of all types of courses at advanced level.

TABLE 53 Estimated GCE achievements of school leavers during the academic year 1965-66*

	East Anglie			England and Weles		
	Boye	Girle	Total	Boys	Girle	Yotal
Leavers with no 'A' level posses No. of 'D' level posses 0 0 1 2 3 4 5 or more	6-82 0-38 0-38 0-31 0-37 0-67	6-28 0-55 0-34 0-34 0-28 0-81	13-12 0-83 0-70 0-85 0-63 1-68	196-88 15-83 11-71 10-70 10-44 22-61	185 86 16 24 13 04 11 12 10 24 28 88 267 89	367-6 31-1 24-7 21-8 20-6 61-6
Leevers with the following number of A' level passes: 1 2 3 4 or most	0-28 0-37 0-77 0-08	0-28 0-43 0-26 0-01	0-63 0-80 1-03 0-10	8 - 88 12 - 80 22 - 66 6 - 63	8-69 11-68 13-17 1-49	17-6 24-4 36-6 7-30
Totel	1:60	0.66	2 - 48	00:36	34-80	86-11
Percentage of all leavers with: 2 or more 'A' level passes 1 or more 'A' level passes 1 or more 'A' level passes At least 6 'O' level passes and/or et least 1 'A' level passe	11:8 14:1	7-3 10-0	9 · 6 12 · 2	12·8 16·7 22·6	8·7 11·6	10-8 13-7 22-0
Percentage of all leavers going to full-time further adspection	10-9	10-5	19-1	10.0	19-1	17-0

of approximately 18 per card of he convenience of presentation. to sampling errors and the final digit is never significant. It has, however, been estained to

524. The general pattern of provision in the region. as elsewhere, should be one of local colleges providing a broad range of non-advanced courses and feeding into larger (area) colleges established in the major population centres, which should be responsible for providing the bulk of the advenced level courses. But the difficulties of communication and the distances involved in East Angile often inhibit plans for retionelisation, particularly of part-time and evening courses. In the more rural parts emailer colleges heve to provide a whole renge of work cetaring for both the day-release greft worker end the Higher Netional and degree student. The solution of this problem is to move eway from pert-time and evening courses in favour of short periods of full-time study (block related), and courses for many of the crefts and professions are moving in this direction. At this stage it is difficult to be precise, since the nattern veries by area and by trade : the initial mays comes sometimes from the college and sometimes from industry. The changeover raises problems, since it involves modifications in the loading of the teaching services and gives rise to a need for properly supervised hostels or lodgings for young neonle.

ere representative of local industrial and commercial interests, and most colleges have specialist advisory committees to essist in planning course policy. Local firms sometimes provide equipment (or money for equipment) end eccommodation for tanching

526. Specialist short courses ers run at all lavels to suit the needs of apprentices and of established employees. Some are pert-time and spread over a fairly long period; others are short full-time courses. They range from merketing, menagement, foreign languages and guicker reading to purely technical short courses.

527. Needy all firms co-operate with the college staff in the complex business of selecting the right courses. Indeed, some college staff are asked to help with the selection of new entrents to firms end to advise on suitable placing of apprentices.

528. Appendix 26 shows the numbers and proportions of students taking different types of courses; these ere based on returns from colleges and do not necessarily include all students from the region taking further education courses. They tend, however, to show that, except in the case of full-time courses for the younger sge-range. the region lags behind the national average to e quite significant extent.

829. The list of polysochnics suggested for designation by the Secretary of State for Education and Science does not include one in the Economic Planning Region. The nearest tree of Hatfield in Hardfordshife and in East London, where it has been suggested that a polysochnic should be formed by the amalgamation of the schnical colleges of three London becoughs.

Colleges of education

tion for the training of tracihers of Cambridge and a Norwich, with an entex in East Satisfuk, with a total of 1,112 students. The proportion of students from East Anglia training as tracihers is below the national everypes, and this may partly account for the difficulty in recruiting tateshers, also students and to setum home to take up baseling appoints.

631. There are two universities in East Anglis-

ments. Universities

Cambridge (University and the University of Ease, at Angile at Noveich, The University of Ease, at Capitates is Easty to have some influence on the manner of the Universities and Industry are not widely assultation and continued as a comtension of the Universities and Industry are not widely assultation and there is a good does of except for development of closer selector. \$2.2. Varubese of students at the universities at conception and the composition of the conception of the Capital Capital students at Cambridge (8,163 man and 1,164onsens), of whom 2,150 were \$100 man of products courses. At East Angile Shem veries including 183 part-products the University Indicating 182 part-products the University Indiana.

Grants Committatia recommendations for 1971– 72 are 10,260 for Cambridge (6;145 undergraduates and 2,115 post-graduates) and 2,785 for East Anglia (2,540 undergraduates and 245 post-graduates).

Careere guidance 633. The Youth Employment Service is admin-

intered locally by the education authorities and by the Department of Employment and Productivity. Through this service children and their pierers are able to obtain vocational guidance and help in obtaining their first employment. Co-oparation between carear exists and those respectively considered by the contractivity of the contractivity of the service of the very contractivity of the contractivity of

16 years of ege is set out at Table 54.

Youth services

for Further Education is active in the youth field to an unusual degree. With edvice from a joint regional training committee for the youth service, the Council arranges many advanced and specialised course for youth leaders, helipers and youth officers.

> Cirls East Anglis

*Pouch Service in England and Millia. Count. 929, HMIDD 1593.

TABLE 54
First employment of young persons under 18, Jan.-Sept. 1967

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Catagory	%	5	S S	16
Apprendiceablige	41-2	43-4	7-6	7:4
Landing to professional qualifications	1-0	1-1	1-8	1-6
Clierical	0-6	8.0	35-8	37-9
Training of at least 12 months	0.6	8-1	4-2	4-7
Training of at least 5 weeks but less than 12 months	6-3	4-9	7-8	9-6
Others	35-3	34-5	42.0	38-8

Adult education

538. In addition to courses provided by Cembridge University Board of Extre-Murei Studies and by the WEA (Eastern District), eduit centres of vericus kinds are intended to meet the more informal but no loss important further education needs of the community. Schools, including some designed for community use, e.g. the Cembridgeshire Village Collages, usually house these cleases end other activities, which attends a seedily, too, eathorities are appointing full-time workers in further education of this more informed bland.

12 Health and Welfare

Hospital services

837. Good progress le being mede towerde remedying deficiencise in both the quality and quantity of hospital provision. There is a general shortage of source and maternity bade, and many hospitals ere deficient in out-petient end diagnostic fecilities. While the number of bade is not an entirely mileble guide to the extent of hospital provision. in 1968 there were 4,503 ecuts bade, representing 2.6 bade per thousand population compared with 3.6 per thousand nationally. There were 537 meternity bade, or 0:36 bade per thousand populetion compared with 0 45 per thousand nationally. Great importance is ettached to remedying the deficiencies of ecute end meternity beds and supporting fecilities. There were 2,476 genetric bade, or 11 · 1 bade per thousand persons aged 85 end over compared with 10.0 per thousand netionally, and 4,832 mental lilness bade, or 2.9 bade per thousand population, which is the earns se the netional ratio. The policy for these lest two groups is to modernies, to provide soute units in district general hospitals so they are built, and day hospitels. There is a need for more mental subnormality bade, of which there were 1,658, or 1-0 beds per thousand population compared with

1:3 netlonelly. 538. The etendende of provision for plenning

purposse ere:

Acute bede e meximum of 3-3 per 1.000 population Meternity bade equivelent to 0 - 58 bade

per 1,000 population related to 1975 Garletric bede 10 per 1,000 persone eand 85 and over

reducing to 1 -8 per 1,000 Mentel Illness beds population by 1975 Mentel subnormelity 1 - 3 per 1,000 population

bede These ratios are only broad guides which often need to be emended in the light of regionel and

local vertetions. 639. Addenbrooke's Hospitel, which will continue ce e teeching hospitel end will provide a district service for Cembridge and the surrounding eres, is being re-developed on a new site. Phase II (424 erute herie with associated inhoratory and reeerch fecilities, out-petient depertment end artificiel limb and appliance centre, costing over £12 million) of the new hospitel is now in progress. A new meternity unit (135 bade) at the Norfolk and Norwich Hospital has recently been completed and further developments are under way. A new meternity unit at Northgate Hospital, Great Yarmouth, le neering completion. Other mejor hospital building echemee in progress include Phese II (edministrative building, residential staff eccommodetion, kitchen end dining-room) of a new mental aubnormality hospital, the Ida Derwin Hospital at Fulbourn: the first phase of the new Dietrict General Hospital for Ipswich; and Phase II (main weed block, out-petient and ecoldent depertments) of the redevelopment of Peterhomush Memorial Hospital (260 ecute beds, 20 gerietric bede, 50 montel lilnese bede).

640. It is hoped to stert within the period up to 1969-70 the new District General Hospital for Surv St. Edmunds. Phote i of the new District General Hospital for King's Lynn; Phesa III (hospital unit-15 bade, 3 villes-120 bade, leboretory and research unit and training and rehabilitedon unit) of the Ide Derwin Hospital, Fulbourn; end a new maternity unit and Phase III (31 couts beds, 10 psychistric beds, 86 gerietric beds) of the redevelopment of the Peterborough Memorial Hospitel, Plenning is in progress on a number of meior echemes which it is hoped to etert subsequent to these developments. The programme includes improvements to meny existing hospitals.

Local authority health end walfare estylcas 541. The most recently published piene of the

eight local health and welfers authorities in the region are set out in the White Peper Health and Welfers: the Development of Community Care (Cmnd. 3022*). The authorities plan the servicesin consultation with hospital authorities and with executive councils-on the besie of their own emperment of the local needs for perticular services, and in the context of the general levels

TABLE 55
Existing and planned health and welfare services*

	31.12.1957	31.3.1978
Massaretty, child wolfere clinics and health centres	410	385
Day numeries	3	3
Pieces In training centres for mentally subnormal	1,308	1,852
No. of please per 1,000 population	0-68 (0-67)	1 - 14 (1 - 19)
Please in hostele for mentally authormel	05	217
No. of places per 1,000 population	0-04 (0-07)	0.13 (0.22)
Places in horses for persons aged 85 and over	3,784	5,464
No. par 1,000 population 65 and over	17-88 (10-7)	24 -1 (21 -7)
	31.9.1867‡	31.12.1876
Midwives, health visitors, home nurses and supervisory staff	678	807
No. per 1,000 population	0.36 (0.41)	0.55 (0.81)
Mental hasith social workers	48	62
No. per 1,000 population	0.03 (0.04)	0.04 (0.06)
Social workers other then mental health	80	112
No. per 1,000 peaulistion	0+08 (0+07)	0.07 (0.07)

*Pigures in brackets are for England and Weiss.
*Pleases for 1975 entracted from Grend, 2000.

physics by 1007 extremely from related by local extraction to the Minimy of Heelst.

of services over the country on a whole. As with Englis

hospitals, the general sim is that of a common setifationry standard of a service, but because of meltional economic circumstances that amount of ceptital investment has tellan short of that included in local subnerineis place. Neverthales, amount operations are set of the service of the se

Executive council services
542. In 1967 the overell average list size for general medical practitioners in the region was
2,299 patients, compared with an average for

England and Welse of 2,472 patients. Thus, by nestical standards, the region is marginally standard supplied with doctors. For dendess, the situation is somewhat different, the number of persons per damits averaging 5,566, compared wide an average for England and Welse of 4,500.

Manpower

543. The numbers of staff in the medical and

dental envious (Department of Employment and Productivity Minimum Ulat Heading 614) ere 21,000 for East Anglis and 758,000 for England and Welse, a home population to staff ratio of 74:1 for East Anglis and 63:1 for England and Walse.

13 Problems of Areas with Lack of Economic Growth

544. The Council has made an examination of the economic cheresteristics of two exemps erres, one with above everage unemployment and one with a history of not contwest migration, and it believes that the problems of these errors ere Bustrative of the kinds of problem that may exist in other parts of the region. 545, The sample areas chosen ere on the late of EV. The north Norfolk areas stratches

com 50 miles extreved from the Wesh including own 12 miles of the coastal historiend. It has basic civilien population of about 55,000 and the nate towns are Hursatroto, Crosme, Sharingham, Fiskenham and North Wisthim. The life of Bly, in the northern part of the Country of Cambridge-shire and the laie of Ely, in a Finalized area some 27 miles by 12 miles, stretching from Wisbach to Bly, Other towns are March and Chattarie and the civilian population is about 75 miles.

Employment structure and change 548. In both areas there were, in 1986, about 27

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TABLE 56

per cent ampleyed in epiculture, se compensed with 10 per cent in the region as a whole. The 47 per cent ampleyed in services were similar to the regions also whole, the services was similar to the regions is everage, but there were fewer employed in menufacturing, about 17 per cent es compered with \$2 per cent (see Table 80), 847. During 1990–86 both rease experienced marginal overall employment growth. This, how-marginal overall employment growth. This, how-

ears, were due to e net increese in famele jobs (+20 per cent in north Norfels, +13 per cent in list of By), end mele jobs declined in both sees, by 7 per cent and 3 per cent respectively. Mele jobs declined principally in agriculture, by about 1,800 (jobs in sech sees. Although these were partially offsetting increases in the metulecturing and coentruction sections, there were, over the six-year period, a net decline of about 600 mele jobs in jale of By end 1,400 mele jobs in north Norfelds.

UD, Cremer UD, Smallburgh, ED and North Western UD, Into all Sin year defand as Wildrach ME, Western SD, Sweln LID, North Missibert 8D, Chastala UD, By 8D and Ety UD. For defanition of three stokes see Figure 9.

Employment structure and change, isle of Ely, North Norfolk and East Anglia 1960-66

Selected SIC Orders	1960	1966	1860	1055	1960	1566
Extractive Agriculture	33 32	26 25	35 35	28 28	14 14	11
Merufectivity Food, Drink, Tabacco Engineering and Electricity	15 6 1	18 7 2	10 8 1	16 7 2	30 8 6	32 7 9
Construction					۰	9
Sanctes Transport and Communications Oferburthe Trades Professional and Scientific Services Miscollendous Services Public Administration	46 10 12 9	47 8 14 10	47 3 12 10 16 6	47 3 12 11 16 4	47 6 13 11 10 6	48 6 12 12 10 4
Total numbers	29,000	29,000	27,000	27,000	617,000	690,000

TABLE 57 Seasonal unemployment, North Norfolk, Isle of Ely and Fast Anglia January 1989

	%	Number	*	Number
North Norfolk				
Melee	5-2	693	3-2	548
Ferneles	1.2	124	0.8	66
Total	3:7	1,017	2-2	603
lein of Ely				
Meles	2.4	465	1:1	215
Farreles	1:1	117	0-5	65
Total	2.0	672	0-9	270
Reet Angile				
Meles	1:8	6,975	1-2	4,000
Fernsies	0.7	1,381	0-4	804
Total	1:4	6,306	0-9	5,610

In comparison with the sub-divisions and the region, both areas had considerably less industrial development cartificate building completions measured against population.

Unemployment

548. In north Norfolk unemployment rates have been persistantly above the regional average for a number of years, while in the late of Elv they have been similar to the regional avarage. In both arase the seasonal fluctuation of retes has been wider then those of the ragion, a reflection of the importance of enriculture and service employment in the sub-regional economy. Table 57 illustrates the unemployment situation in January and July 1966, a period of high labour damend in the national economy. Unemployment retes ere only en approximete indication of the size of the labour reserve in an erea end we have, therefore, calculeted labour reserve rates (for October 1987) of 0-9 per cent in north Norfolk end 0-7 in isle of Fly, which compare with 0.6 per cent for the region. The labour reserve rate in north Norfolk is

thus significantly higher then the regional rate.

549. In both erees the absolute numbers unemployed era reletively small, end the labour reserve element amounts to no more than a few hundred in each, Navertheless, for smell leoisted communities this represents a significant problem. because elternetive opportunities ere not readily evallable.

July 1956

Population 550. Over the fifteen year period 1951-68, the mein characteristics of both areas were merginal increese in basic civilian population, together with some net outward migration. In north Norfolk there was slight net outwerd migration between 1951 and 1961, but this trend was raversed between 1661 and 1966, when there was a small inflow. The absence of population growth by natural change in the period 1961-66 is primarily attributable to death rates. (See Table 58.) People of retirement age form a significantly higher proportion of the population in north Norfolk than in the region, in lale of Ely there was considerable net outward migration during 1951-

61, and this trend continued between 1961 and

TABLE 58
Population change, North Norfolk, Isle of Ely and East Anglia 1961-66*

			Chergo 1961-66		
	1961 population No.	Total %	Netural %	Net migration %	1986 population No.
North Norfolk	64,000	+06	Stight decrease	+ 0-5	88,000
tale of Ely	77,000	+1-0	+ 2 - 3	~ 1 - 3	76,000
Feet Anolis	1,408,000	+7-0	+ 2-7	+4+3	1,504,000

·Dedt civitas population

1966, shough et e lesser rate. The rate of neturel increase hes been slightly less than the regional everage. The ogs distribution of the population is fully troices.

Trevel to work

employment apportunities in an erre is a growth of long distance outwest communities. Over the period 1891–80 the employment defibit (the job profes) and the period terminate of the profes in the profes of the profes in the profession of the prof

Infrastructure 552. Housing, in both eress the quality of housing

In terms of basic ementities is generally below the regional average, in north Norfolt: the cowns are show the everage for England and Weles, but the furth cross are among the worst in the country, in the list of Ely, towns as well as rural cross are below the regional everage. NS3. Communications in both erees communications are poor: roads are often narrow and tortugue, perfoulerly along the goest and across the Fen. In north Norfolk ell the remaining rail services are threatened with closure, and in the lele of Fly the erro second Wishesh will not have a service if current proposals are carried through. it is eignificent that all the rail services which it is proposed to close link the erses with towns to which there has been a recent commuter growth. 554. Earnings. No dete are evallable specifically for these email erese; but it is likely that male sernings ere below the Norfolk everage, which is 7 per cent below the Eest Anglie everege, which is in turn 8 per cent below the Greet Britain SANTEGE.

Conclusion

555, Both ereas have experienced a decidine in make jobs brought about by the contraction in experienced and proposed to the process of the currently week in the clarged and service fields. The decidine in explosituate employment on the expected to contrain for some time, and it is likely that, unless measures are taken to make a process of the contraction of the contraction of the treated of teamproprient, population study, the servings will also continue.

East Anglia sub-divisions: constituent areas

Sub- division	Equivalent local authority areas	Nearest equivalent employment exchange erass
NORTH EAST	Norfolk (part)	
	County Moreuphs Great Yarmouth Norwich	Ayleham Baccias Bungay
	Municipal Barough Theoloid	Cromer/Holt Dareham Fakanham/Welle-next-the-Se
	Unban Disolete Cromer; Disa; Bast Derahem; North Walsham; Sharingham; Swellham; Wells-naxt-tha-See; Wymondham	Great Yermouth Herisaton Lowastoft North Walsham Norwich/Woshem/
	Maral Districts Biofald and Flagg; Dayweds; Espinghem; Fershe and Hanssad; Loddon; Mirtord and Lexnifish; Sr. Feth's and Aytham; Brailburgh; Swatham; Walsinghen; Wastund	Loddon/Acta Southwold/Halasworth Swattham Thatford/Brandon Wymandhem/Atdabcrough
	Suffolk, East (part)	
	Municipal Baroughs Lowestoft; Southweld; Baccise	
	Union Districts Burgey; Helesworth	
	Rural Districts Lothingland; Weinford	
NORTH WEST	Cambridgeahire and lale of Ely (part)	
	Musicipal Boroogb Wabach	Chetteria Downham Merkes/Stokeferry Hussetanton
	Chatteria; March; Whittlesay	King's Lynn March Paterborough
	North Wischford; Websch	Wiebsch
	Huntingdon and Paterborough (part)	
	Municipal Strough Paserborough	
	Urban Districts Old Flatton: Remay	
	Awal Districts Bernack; Huntingdon; Normen Crose; Paterborough; Thomay	
	Norfolk (part)	
	Municipal Borough Ring's Lynn	
	Unban Districts Downham Market; Hunstenton	
	Rurel Districts Dooking: Downham; Freebridge Lynn;	

Sub- division	Equivelent local authority areas	Nearest squivelent employment exchange erase
SOUTH	Suffolk East (part)	
	County & arough Speech	Bury St. Edmunds/Mildenbe
	Municipal Boroughs Aldeburgh , Bys	Diss/Sys Faitustows (penich Laisten
	Litter Districts Patentown: Leiston-Curn-Stanweil: Seamundhen: Stownerist: Woodbridge	Stownerket Sudbury Woodbridge
	Ravel Display Styth, Deben; Sipping; Hertwrene; Sendord	
	Suffolk West (part)	1
	Municipal Baroughs Bury St. Edmunds; Sudpury	
	Unbarn District Hedinigh	
	Rural Displots Conford; Melford; Thedweste; Thingse	
SOUTH	Combridgeshire and lele of Bly (part)	
west	Municipal Borough Cembridge	Centridge
	Cirban District By	By Hevenill Huntradon/8t. Inte
	Rurel Districts Cheeteron: By; Newmerket: South Cembridgeshire	St. Negte
	Huntingiden end Petarborough (part)	
	Municipal Boroughe Huntingson and Godmenchester; St. Ives	1
	Cirban District St. Neste	1
	Rure/ Districts St. Ives: St. Necce	
	Suffolk Wast (pert)	
	Uthan Districts Heverhill; Newmerket	1
	Runt Direlets Clare: Midenhall	

East Anglia: population of sub-divisions

1987 Home population

All erass North East sub-division North West sub-division South East sub-division South West sub-division			1.811,910 578,430 304,700 377,630 383,180
North East aub-division			
Constituent eres	1987 Home population	Constituent area	1967 Home population
All areas	878.430	Porehos and Heneteed RD	31,200
Norfolk (part)	484,060	Loddon RD	13,130
Great Yerrrouth C6	51,910	Mitford and Launditch RD	17,730
Norwich CB	118,810	St. Felth's and Ayleham	84,180
Therford MB	10,400	Smallburgh RD Swattham RD	17,840
Cromer UD Dise UD	4,970	Walangham RD	10,410
East Dereham UD	8.000	Wayland RD	20,690
North Walshem UD	5.370	Buffolk East (part)	82,370
Shednahan UD	4.970	Seccine MG	7,680
Swellham UD	3,870	Lowestoft MG	49,160
Walls-next-the-Bas UD	2.480	Southwold MS	2,140
Wymondham UD	41,130	Bungey UD	3,610 2,760
Sicrieid and Flagg RD Dapweds RD	18,000	Helssworth UD Lothingland RD	18,870
Erpingham RD	18,670	Waisford RD	8,780
All areas of Ely Companies and tals of Ely Companies of Ely Walsoch MB Coloronis UD	304,700 83,870 17,410 8,620 13,410 9,600 4,680 13,170 130,600 68,100 13,040 0,620	Banneik RD Huntrigolo RD Norman Cose RD Peterborough RD Norfolk (part) Klarig Lyrin MG Downham Midde UD Nortolk (part) Cose RD Downham Midde UD Nortolk RD Downham RD Telebrag RD Downham RD Manabland RD Menabland RD Menabland RD	5,870 18,950 11,410 8,250 2,650 108,030 28,370 3,320 4,200 15,160 28,210 12,080 17,680
South East sub-division			
Constituent erre	1987 Horea population	Constituent area	1967 Home population
Constituent erre	population 377,830	Gipping RD	population 23,500
Constituent erre All ernes Suffolk Eest (part)	377,830 283,820	Gipping RD Hersenere RD	23,500 18,150
Constituent area MI areas Fuffolk East (part) parkich CO	90pulation 377,830 283,820 121,870	Gipping RD Hardamers RD Samfeed RD	23,500 18,180 19,650
Constituent erre MI ernes Luffolk Eest (pert) pswich CG Udebusch MB	977,890 283,820 121,870 3,100	Gipping RD Hardamere RD Samfook RD Buffolk West (part)	23,800 18,180 19,880 83,810
Constituent erre	977,830 283,820 121,870 3,100	Gipping RD Hardamere RD Samford RD Buffolk Wast (part) Sur St. Edmurds MG	23,500 18,180 19,850 83,810 24,280
Constituent erre MI erres Furfolk Eest (pert) pervich CO Glabicuph MB ye MB ye MB astern comro-Stare el UD	9094 effor 377,830 283,820 121,870 3,100 1,640 19,480 4,890	Gipping RD Hardemere RD Samford RD Buffolk West (pert) Bufy St. Edwards MG Sudsery MB	23,500 15,150 19,550 23,510 24,250 7,050
Conditivest area UII areas UII areas UII fortick Beat (part) parvich of Udebungh MB Iya MB Iya MB Islandown UD Islandown UD Islandown UD Islandown UD	977,899 283,920 121,870 3,100 1,640 10,490 4,890 1,600	Gipsing RD Hardsmire RD Samfold RD Surfolk West (pert) Surf St. Elmunds MS Sudbury MS Haddigh UD Cosford RD	25,690 18,180 19,880 83,810 24,280 7,080 4,840 8,180
Constituent seen VIII armae Vierfolk Rest (part) pervich CG Udokscuph MB Vy MB Widscuph MB	90pulation 377,830 283,820 121,870 3,100 1,640 10,490 4,890 1,600 8,100	Gipping RD Hardsmare RD Samised RD Surficial RD Conford RD Matford RD	23,500 18,180 19,850 24,280 7,080 4,840 9,180 17,289
Conditivest area UII areas UII areas UII fortick Beat (part) parvich of Udebungh MB Iya MB Iya MB Islandown UD Islandown UD Islandown UD Islandown UD	977,899 283,920 121,870 3,100 1,640 10,490 4,890 1,600	Gipsing RD Hardsmire RD Samfold RD Surfolk West (pert) Surf St. Elmunds MS Sudbury MS Haddigh UD Cosford RD	23,890 18,180 19,880 83,810 24,280 7,080 4,840 8,180

Coredizent area	1907 Home population	Constituent area	1987 Hom population
All erree Combridgeshire and lake of Ely (part) Controlige M8 Ely UD Chestraton RD Ely RD Newmeth RD South Combridgeshire RD Huntingdom and Paterborough (cart)	203,150 232,960 100,360 10,030 80,600 14,760 22,310 36,020 88,760	Herringdon and Godmanchaster MB St. less MB St. less MB St. less MB St. Neota RD St. Neota RD St. Neota RD Hereinilla UD Neotasias UD Medicarias RD	14,760 6,170 11,900 17,630 8,100 61,430 10,300 11,840 28,930

3

Travel to work—areas of dependency: commentary on Map 3 (in pocket)

Map 3, and Table 3A, are based on the numbers of pages to exactling to work didily from local eartherity areas into the four major and these minor unten centrus. These travelst-own knowments from any one local authority area are related to the total exponencies of the presentance refetablish to its described as the degree of "depandence" of the areas on the coatre for semployment.

Some of the more important conclusions that can be drawn from the maps are mentioned below.

Mep A. Travel-to-work to the four major urban centree 1986
3. There is no significant Tabour marker' connection between the four major centres: fewer than one hundred persons travelled dely for work from any one centre to any other.

4. There is no overlap of local authorities until one gets wall ballow the '6 per cent dependency' shown in Map A. The labour esthement resort the four centres are therefore clearly defined.
5. Large areas of the region il e ousside the '6' per cent dependency' labour cechment areas of the four centres.

6. One measure of 'significant dependency' edepted from American practice by British research workers* is the Standard Metropolitan Labour Aree (SMLA): the catchment area consisting of local authority areas contributing 15 per cent or more of their economically active population to the employment centre. This '15 per cent dependency' proves to be of significance in East Anglia. with by fer the greater part of the volume of cornmuting into the centres covered by it and with a sherp gradient from about 15 per cent to the next schalon of local authority sraes at under 10 per cent. Map C shows that a ten-mile radius around each major and minor centra ambraces almost the whole of the '15 per cent dependency area', This is even truer when it is remembered that the use of local authority boundaries exaggarates the ectual geographical extent of commuting in all cause, and only rough corrections can be made in the absence of parish traval-to-work data. Map A siso shows thet 15-mile radii around the major centres cover the greater part of the '5 per cent dependency'.

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**There' Committee as Least developed Assessed States 1, 1989, 1971. No other properties of the properties of the curry opponency of the curry of the curry opponency of the curry opponency op

Mep B. Widening area of depandency on 16 premior under native 1931-16.

7. The 15 per cent dependency' did not aprecia dimensionally in terms of addicional local euthority areas in the years 1951-16. (see Table 3A), was inhough that peed of was marked by an unpre-cadered growth in the ownership of private case. Novikith provides the provides of the

that proportion substantially in the years to 1986.

Mep C. Trevel to work to four mejor urban centres and three minor centres 1966.

8. As noted ebove in the comments on Map A.

the four major centres were distinct in labour market terms. This is almost as true of the three minor centres, even though they occupy intermediate geographical positions and are therefore closer to the major centres. Map C shows that in relation to the "15 per cent dependency", the only overlap is on Biofield and Flegg between Norwich and Greet Yermouth/Lowestoft, Table 34 brings out that this in fact holds true for the '5 per cent dependency', with not e single additional overlap-9. There is little exchange of labour between the four major centres and the three minor centres; Bury St. Edmunds, for exemple, contributes fewer then 60 persons to ipswich each day to work, and fewer than 30 travel to work in the opposite direction.

Mep D. Urban authorities contributing 5% or more of their economically ective population or 100 or more parecise to theseven urban centres

10. A very large pert of all commuting into the serven centree originates in the auburbs and Villeges only just over the local submirty boundery line, but is credited to the rurel districts which on the mey spread out up to 15 miles from the urben centre. In order to elliminate this dissortion, Map D identities only the links with the free-standing urben

strees of the ragion.

11. No other urban area, it can be seen, sends

either 5 per cent of its economically ective population or more than a hundred persons in two or more directions. Also, on the same criteria, many urben areas have no significent link with any of the reven urban centres Trevel-to-work from outside the region

12. This is perticularly significant in relation to Peterborough with over 20 per cent (3,000

persons) of its inwerd commuting coming from Lincolnshire (2,400) and Northamptonshire (600), For Cembridge it is 5 per cent, or 900 persons, from Hertfordshire, Essex and Bedfordshire, Ipswich has 4 per cent or 500 persons from Essex, of whom around 200 are from Colchester (a stronger connection then with Bury St. Edmunds), King's Lyon has 1 per cent of its commuter hinterland in Lincolnshire.

Local authorities contributing 5 per cent or more of their economically active population in 1966 to other boroughs*

			1951			1866	
Contributing authority	Miles to centre (min mec.)	Census enumerated population '000	% of economi- cally ecolvs population	No. '000	Census anumaresed popularion '000	% of economi- cally ective population	No. '000
Norwich CB	1	l					
Bungay UD	13-15	3-6	6	0.1	3.5	5	0 : 1
East Dereham UD North Weisham UD	12-17	6-4	2 7	0.1	6-1	7	0.2
Sheringham UD	13-15	4-7		0:1	5-6	10	0.2
Wymordhem UD	6-11	5.7	12	0.1	5.0	18	0:1
Blofield and Rapp RD	2-18	32-1		3.1	38:4	31	5-1
Dagwada RD	7-20	18-2	-9	0.8	17:8	è	0.7
Erpingham RD	12-25	10-4	2	0.1	18:2	6	
Forehoe and Henesaed RD Loddon RD	2-15 5-19	23-4	35	3-4	30-1	47	6-3
Mitford and Laundton RD	B-25	18:1	9	0.5	13-1	18	1-1
St. Feith's and Avisham RD	2-17	37-6	34	5.5	53-4	6	0.4
Smeliburgh RD	6-16	18-4	7	0.4	17:1	i i	0.7
pewich CB					1		
Felixatowa UD Hadiwich UD	9-11	15-1	12	0-7	18:0	14	1.0
telasworth UD	6-11 23-28	3-1	10	0 - 1	4.4	1.0	0.4
Noodoridge UD	5-7	2·2 6·3	10	0.2	2 - 7	6	0.1
Deban RD	2-20	26:4	10	2-1	8-3	16	4.2
Glosing RD	2-16	18:1	16	1-3	22-7	20	1.0
Samford RD	2~10	15-2	17	1-2	16-1	22	1.7
Cembridge MB							
By UD Newmerket UD	13-20	10.0	3	0.2	9.7	7	0.3
St. hen MB	10-13	10-2	ā.	0.2	11-6	ż	0.4
Chesterton RD	2-15	3:1	25	4.4	45.3	6	0.1
Ely RD	8-22	14.7	2	0.1	14-4	42	8-1
Newmarket RD	5-18	20.2	10	0.8	22.5	16	1-8
South Cembridgeshire RD	4-17	25 - 6	ě	1.0	32.7	16	2.2
Peterborough MB Did Flatton UD							
Anney UD	2-4 7-13	8.0	44	2.0	13:0	46	2.5
Vhittlesey UD	3-10	5 · 8	7	0.2	6.3	6	0.1
Farmeck RD	5-12	3:1	15	0.5	10-1	28	1.3
formen Cross RD	2-10	6-6	21	0.0	0.4	41	1.8
atarborough RD	2-8	7-3	42	1-3	5-8	53	2.1
horney RD Vietnoh RD	2-11	12:4	17	0-1	2.4	24	0.2
3reet Yermouth CB	10-4	14.4	1	0-1	13 - 2	5	0.3
Hoffeld and Flagg RD	1,18	32-1			1		
othingland RD	1-20	14-7	12	1-5	18-2	18 25	3.2
owestoft MB					1		- '
leccies MB	5-7	5.9	2	0-1	7-4	7	0.2
othingland RD	1-12	14-7	15	1.1	19-2	25	2.2
Felinford RD	6-15	7:1	2	0-1	5.5	6	0.2
ury St. Edmunde MB					i		
hedwestra RD hingos RD	4-15 2-14	5-8	8	0.3	8-5	18	0.5
	2-14	17:3	15	1.2	20.9	25	2-7

Contributing eatherby	Miles to centre (min mex.)	Cerese enumerated population 1000	% of economi- celly active population	No. 1000	Centural enturnaeated population 1000	% of economi- celly sotive population	No. '000	
King's Lynn MB					1			
Downhern Merket UD	8-10	2.6	3	_	2.9	6	0.1	
Hunstenson UD	13-18	3 4	5	0.1	3.6	12	0.1	
Docking RD	7-22	17-5	5	0.3	10:6	17	1-1	
Downtern RD	3-22	24-5	2	0.3	22 6			
Freebridge Lynn RD	2-14	11-0	18	0.8	12.8	35	2-1	
Memblerd RD	2-15			0.4		18	1.2	

4

English planning regions: population, area, density 1966 and 1967

Economic pienning region	Aree in	% distribution	Home pr 1966	apulation 00 1967	Gross don persone pe 1866	ity r squere mile 1867
North West	3,083	6-1	6.731 - 8	6.786-0	2.194	2,191
South East	10,666	21.0	17,071 -9	17,188-6	1,617	1,629
West Midlende	8,028	10-0	6,021-4	6,067 - 4	499	1,008
Yorkshire and Humbersida	6,474	10-8	4,732 1	4,792 0	364	974
Rest Midlends	4,711	9.4	3,280 - 5	3,286 -6	700	700
Northern Region	7,471	14 0	3,316-8	3,329 - 6	444	446
South West	9,168	16-2	3,618:0	3,662 2	316	310
Eest Anglie	4,082	8-6	1.682 - 6	1,611-9	326	332
England	50,333	100	45.374 - 1	46,650 6	901	806

Annual Community of Street, St

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North Wate 840:

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Mid-year estimated home population and changes 1951-66* East Ang APPENDIX 9

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APPENDIX

Population projections in Part II, Chapter 2

1. The projection of population put forward in Part II. Checter 2, forms part of an exercise in which the General Register Office (GRO) efter consultation with other government departments has produced projections covering the period

1956-81 for all the stenderd stetistical regions of England and Wales.

2. An elternetive projection for the region is conrained in a paper published in 1957 by the East Analls Consultative Committee (EACC)*. After ongsultation with officers of EACC this projection has been restated here in the same form as the

GRO projection to fecilitate comparison. 3. The GRO projection relates to home population and the EACC projection to civil population. On the assumption that the number of erned forces stationed in East Anglie will be the same in 1981 es in 1966, the whole of the change 1966-81 in

the GRO projection can be ettributed to the givil population and is therefore directly comparable with the channe shown in the EACC projection. mm Comperison of growth

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39

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7. EACC supports its figures by reference to: e recent trends. The figure of 143,000 is an almost award averagonization of the nat migration

gein of 47,000 between 1961 and 1966; b the emount of housing land already committed by allocation in development plans and

by planning permanions issued. EACC states that there is a contingancy mergin in its allocations so that not all committed land need be developed by 1961 in order to accommodate the population growth which they forecast. 8. The interdepertmental assumptions incorporeted in the GRO projections in paregraph 3 take

ecoount of past inter-regional and international petterns and trends in migration, of future planned oversplil movements under the New Yowns Act and the Town Development Act, and of regional end netional aconomic policies. From this is darlyed the net migretion movement to East Anglie (255,000). The Ministry of Housing and Local Government has astimeted the intake to New and expanding towns 1966-81 at 250,000, but on the assumption that 10 per cent of the intake would be drawn from East Applie itself, the not movement from outside the region to pleaned schemes would be 225,000. By subtrection, the ellowance for net migration to the rast of the region is 40,000. The floure of nat noculation repyament is divided according to the destination of the migrants and there is no assimpte of net voluntery migretion

54 9. One reason for the difference in migretion assumptions lies in the treatment of international migration, Between 1961 and 1966 there was a 4. Personach 3, Item 1, natural increase, ecopunts

net gain to the region of 13,000 on this ecopure. Extrapolation, which is implicit in the EACC figure. would give a net gain of 39,000 between 1956 and 1961. But the GRO has taken note of the downward trand in overseas net migration for England and Walss, which in 1988-67 showed a net loss (of 11,000) for the first time sings 1656, it has therefore assumed a net loss of 20,000 from East Angile by International movement 1966-81. The difference in treatment of international migration therefore eccounts for 59,000 of the difference in migration essumptions.

10. A second reason for the difference in migration assumptions concerns the offect which the great Increase in movement to plenned schemes will heve on migration to other pleass in the region. It is segumed in the GRO projection that the much locrassed flow of plenned schemes will absorb some of the notential migration to other places. EACC supposts that the substitution between movements to planned schemes and movements

e to New and expanding towns b to other places 3. Natural increase of net population movement Total growth The EACC forecest of growth is higher by 137,000.

1956-81

1. Natural Increase

2. Net population movement

from outside the region

for 19,000 of the difference. This is because two counties which have elready experienced considerable growth in expended towns believe that then the GRO expects.

their birth rates will increase to a greater extent 5. Personech 3, item 3, ecopunts for 15,000 of the difference but this is not a point of substance. The rete of natural increase ettributed to the migrants

is the serve in both projections, so that this differance is marely a consequence of the difference in the estimeter of net population movement. 6. The main reason for the difference between the two projections in peregreph 3 lies in Item 26, net population movement from outside the region to pleces other than New and expending towns, which the EACC estimetes at 143,000, while the

interdepartmentally accepted view, incorporated in the GRO projection, is for only 40,000. "Report on Population Changes and Trends in East Anglia (EAOC/4). to other pieces will be of local rather than regional importance. It points out that in any case no houses have yet been completed in the major planned schemes, end in the meentime migration

to other places is continuing at a high rate.

11. Whatever the pros and cons of the estimates of the component parts, the most important con-

11. Whitsver the priss one consist necessities of the component perits, the most important consideration is the estimate of overall growth, and both projections imply a further acceleration of the already high rate of growth. In the lifteen years up to 1988 the population of the region increased by 200,000. For the next fifteen years the GRO forecast of growth is over twice, end the EACC forecast nearly three times, that emount. (See Table 7A.)

12. The limiting fector on population growth is the rete of employment growth. It seems less likely that the growth of employment could be accelerated sufficiently to support the very high rate of population growth forecast by EACC.



Estimated population growth

	As	tuel	Forecest	1805-61
	1951-01	1951-65	GRO	EACC
Population increese (securing armed forces constant at 1905 level)	95	105	426	693
Population Increase, ensuel everage	10	21	20	38

Act	
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			Pluned	Planted increase	Target population			-
Town	TDA myrmeren	of schoese	in terms of prophe	In terms of LA houses	increase and volumery regulator) at 1981	completed at June 1957	bolk wher June 1957	nomination
Bary St. Edmands	1360	22,000	10,500	3,000	40,000	640	2.363	Nomination
Havefull (ctage 1)	1961	4,500	10,500	3,000	18,960	1,578	1,422	Афенсу
Hantington	1868	8300	8,578	2,480	21,600(1)	1,514	80	Agency
King's Lyon	1961	27,000	12,260	3,600	63,500	787	2,743	Norsession
Milderhall IID (at Milderhall and Brandon)	1981	24,000	7,000	2,000	(4)000(1)	961	1,004	Agency
Newtackst	1956	11,350	\$150	9	Net decided	2	986	Apendy
St. Neets	1961	900'9	7,000	2,000	14,000	386	1,635	Nomination
Sudary (1901	0,550	5,250	1,500	13,000	ž	1,500	Agesoy
Great Cornard (Meltord IID)	i	2,580	2,625	750	6,500	#	200	Agesty
Therbad	1998	6,000	10,500	3,000	18,500(1)	1,302	1,688	Apeccy
		1	77,350	22,160	1	6,742	10,303	

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	X of total employment	8.8
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	% of tata employe	
	X of total employment	8:8
ages	Total 1000	80-3
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X of total employme		2	*	ń
X of total employment	0.0	4-0	10-3	4-9
000, 100	80-3	5.2	9	7 18

-	% of the	_		
	X of total employment	8	70	40.0

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England and V % of total employment	1.9	5.4	413	9.6	2-3	2:3	10-1	0.7	3.8
hotsi oyraeni	8:8	4-0	8-0	- 74	1-1	9.0	9.1	9.0	2.6

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East Anglia employment relative to England and Wales (Angland and Wales = 103)	123
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	lotsi Manufactaring	128-0	ě	187-8	30-8	
Š	Construction	20.00	2-0	25.2	8	
N.	Gas, Electricity and Water	10.6	2	12:0	2-0	
×	Transport and Communication	8:22	6.2	198-1	4.0	
×	Distributive Trades	8:3	9:20	72.9	12.0	
ğ	Inserance, Basicing and Pleance	1.8	6-9	12.6	2:1	
ĕ	Professional and Scientific Services	ę g	1-13	7 83	11.4	
8	Miscellaneous Services	\$-02	240	9-19	10.1	
200	Public Administration and Defeace	7-83	9-6	8	8-2	
	Total Services	167-4	138-1	300-5	10-2	
	Total Employment	250-2	210-4	9-800	100-0	
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12.7 12.7 10.7 8-6 8-6 100 0

Piperne are transfeld and over cet odd to teste. Proce: Presence of Engloyment and Production. APPENDIX

Estimates of employees in employment in East Anglia: —mid-1967

Orday		Males	Ferneles	Total
i	Agriculture, Foresty, Fishing Mining and Querying	45·4 2·0	8·7 0·2	56·1 2·2
	Yotal Extractive	49-4	0.0	50-3
5×525××3255×	Food, Diek and Tobosos Chemicals and Alliad Industries Engineering and Especial Goods Shipkuling and Markos Engineering and Especial Workship and Markos Engineering Workship and Markos Engineering Workship and Alliad Shipkuling and Pure Learner, Leather Goods and Pure Engineering and Especial Company, and Broken, Positive, Giller, Good Especial Transfer, Fundamer, 600 Thater, Fundamer, 600 Especial Transfer, Fundamer, 600 Especial Chief Manufacturing Industries	23-3 7-9 2-8 40-5 3-1 14-2 1-7 0-5 4-6 7-4 9-1 11-0 4-0	17-4 2-6 0-5 18-2 0-3 1-5 1-0 1-5 0-4 0-5 1-5 1-5 1-5 1-5 2-9	40 7 10-5 3-4 85-5 3-4 15-7 3-5 1-0 13-5 7-9 10-7 15-5 5-9
Т	Total Menufecturing	132-8	59 8	192-7
XVII	Construction	47-3	2-1	40-4
XIX XX XXI XXII XXII XXIII	Gos, Electricity and Water Transport and Communication Distributive Trades Insurance, Sanking and Flancis Perfectional and Scientific Services Macellances Services Public Administration and Defends	10-7 32-2 34-6 5-5 25-6 25-9 30-2	1 · 3 5 · 5 34 · 8 6 · 8 47 · 7 32 · 8 10 · 1	12·0 37·7 52·4 12·5 73·5 69·5 40·3
	Total Services	165-9	139-3	305-2
_	Total All Ordere	395-4	210-2	805·5

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East Anglia: employees in employment: change 1961-66	
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 There are many and sometimes conflicting feators which influence regional activity rates. Both the methods employed in this Study for forecasting future lebour supply ettempt to take these factors into account.

2. It can be seen in Figure 23 that national and regional activity rates for males and females have fluctuated in recent years, but that future projected rates for Greet Britein show a slight decline between 1966 end 1971, both for meles end females-a decline which continues to 1961 for meles, but levels out for females. Method 1, which has been used to project the East Anglis activity rotes ecoumes, in the case of meles, that the difference between the regional and the national rete has, overall, been neither nerrowing nor widening between 1960 end 1966 end that the difference, i.e. 10 - 4 per cent, will remain in future et ebout the eeme megnitude. For femelee, the essumption is that the difference between the regional and national rates has been narrowing gradually and that this trend will continue. It has therefore been estimeted that the differential will be 6 per cent in 1971 and 3 per cent in 1981.

3. The main defect in Method I is thet it assumes the the effect of registron on the population associate will be similar in the future to the effect of the population associate will be similar in the future to the effect of the population of the property of the prop

therefore undaratete the region's mempower re-

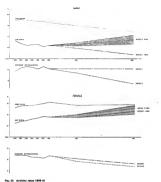
4. For Method 2 it has been possible to obtain figures for the migrents on the one hand end the remeinder of the population on the other. Within each of 16 egg/sex groups (eight 'stetic' groups end eight corresponding 'migrent' groups) trends have been identified, and projected activity rates estimeted on a subjective basis, having regard to all the fectors described above. To some extent this tesk has been simplified by the fact that particular trends are identified with particular and sex groups. The ectivity rotes have been applied to the population in each egg/sex group to produce employee astimetes, which can be eggregated and compared with the total population figures. Overall ectivity retes can then be produced to compera with those enived at by Method 1, it will be seen from Figure 23 that the projection produced by Mathod 2 yields a higher ectivity rece for males than the rate suggested by Mathod 1, reflecting what is probably the true effect of rejuvenation of the population by inward migration. This prolection has therefore been edopted with a range of ±0.68 per cent for 1971 and ±2 per cent for 1981 as the basis for mele lebour supply astimette. 6. For females, the result errived at by Method 2

in Tobic 12 (Part II, Chapter 3) a renge hee been easumed which encloses the results by both mathods.

8. Method 2, whillst teking account of factors more comprehershally, is open to inaccuracy because of the subjective way in which the spot sex activity retend comments. One sequently, the results from both methods should be interpreted with ceution.

fells feirly close to the result obtained by Method

1. Therefore, in setting the upper and lower limits



Note: In the above graphs the forecasts extined at by

Methode I and 2 am shown as apprets that his the sections marked "Difference Regional/Nedwork". In the other sections the preferred method, or contribution of methods, has been expressed a range—i.e., ±1% at 1971; and ±2% at 1991.

13		regard whole-unite workers" on agricultural noldings	3	ĺ	٤		5	5			3	5	į	5	ĺ	3	Š	
	8	198	285	35		198	35	18	961 986 1861 7001 8861 999	28	1980	2	2967	1963	1961	1985	200	1982
Cambridgeshies and the late of By	16,575	15,475	16.575 15,475 14,646 14,342 13,836 13,188 12,862 12,464 11,572 11,673 10,756 10,756	14,243	13,829	13,189	12,682	12,484	525,11	11,872	11,028	10,756	1	8,813		1.	1	-1
Hustingdon and Peterbonough	5,829	5,646	5284	43851	4872	458	100	222	45.65	409	7,815	3,761	3,594	3,578	3.26	33601	3301	3207
Nortolk	32,746	32,232		31,386 30,626 29,842 29,025	29,842	29,025	27,534	27,746	36,681	28,554	25,786	24,905	23,443	22,672	21.377	20.027		18,419 17,489
Suffos.	22,152	21,806		20,750 20,443 19,794 18,963	19,794	18,963	18,350	18,220		17,585 17,109	16,226	15,423	14,553	13,962	13.168	12,462	11,815	10,995
Total: East Anglia	7,302	74,268	74,368 72,077		88,337	70,296 88,337 66,673	63,28	287		10,284 SB.82H		57,018 54,824 51,801	198'15	20,876	47,098		44,445 41,259	39.376
Total: England and Wales	675,283	963,803	6333694	520,307	506,382	478,883	454.736	448,008	472.359	424.962	406,703	383,722	367,628	717 998	333 124	ENTRE 00014C 40010C 101.000 (11.000 011.00	294,633	278.143

Labour on agricultural he	Lab	our	s* s	agri	ge (tura grou	ق <u>آ</u>	퍨	s	(reg	ınlaı	₹	ole	Ė	Labour on agricultural holdings (regular whole-time male workers* by age group)	ale
		Under 18	2 2	*	2	18-19 . 20-81	15	n	25.20	7	1	2	10-01	65 and ever	and I	
		Number	N N	Number	N g	Number	4	Number	4 80	Number	d'and	Number	N N	Namber	Noteber of tools Norther of tools Norther of tools Norther of tools Norther of North Norther of tools Tools	Total
Thodopales and of By		2	6.0	380	1.9	168	:	103	16.4	1,683	0.22	2,808	8	92	348 48 280 61 694 94 1,178 164 1,653 22.9 2,803 20.9 26 3.9 7,203	7,200

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1,482 3,283 3,283 3,283

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groups	North East	% of sub- darkjon notel
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	South East	3183	9	22
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Industrial structure of sub-divisions 1961-66 (employees) detailed changes* APPENDIX

		Nad	Nach Sast			ğ	South East			S.	South West			Nort	North West
			6	Owner	1		6	Change		1	6	Change		1907	
Industry (SAC Dules)	3	88	8	×	8	88	990	×	8	18	000	×	8	3	900
Servedies	28.0	9.90	7	7	99	202	7	-13-2	12-6		-8.0	200	16.6	14.8	ř
Selected Macafacturing															
Food, Dent and Tokesto.	18.7	9	Ž	2	9	2	9	14.7	ı	1	1	1		ξ	ž
Engrooms	12.4	16.1	0	30.0	10 2	12.7	2	24.6	*	12.0	5.4	22.0	10-2	27.0	ž
Vehicles	1	1	1	1		1	1	1	1	1	1	1	2-3	1.6	•
Clothing, Pontwear	12.0	10.2	7	-18.0	1	1	1	1	1	1	1	1	1	1	
Drinks, str.	1		1	1	1	1	1	1	1	1		1	1	I	
Pursitan, Testor	1	1	1	1	1	1	1	1	1	1	1	1	1	ı	
Jades Testand	2	:	Ξ	7	1	1	1	1	1	5			1	1	
Total Meradoctaving	8	71.1	7.7	*	Ř	9	9.5	20	25.52	22.0	2.0	9 8	32.8	0 09	3.0
Construction	16-8	28.3	10	8	10 0	13.5	2.6	12	8.3	10.8	19	191	6.3	7.6	÷
Treasport	10.4	ě	9.9	7	2	2	Ť	Ŧ	1	1	1		7	8 5	ä
Obselvan	9 82	23	5-7	2	ž	3	ř	727	12.8	12-6	9	18.50	1.0	20	ě
leasyster, Berling and Heason	1	1	1	1	1	1			ı	1	1	1	1		
Professional	17.4	7	2	22.6	10.0	2	7	ã	2	25	*	25-0	2.4	9 3	ř
Youl Construction and Services	110-3	126-6	27.00	13:1	ŝ	27.0	8.7	12-7	1993	25-6	2	10-5	46.1	ž	ä
Total All Dident	201 6	221.7	2	*	121-3	120.5	12-2	10-0	\$-004	115-0	11.1	10.7	6.08	102-3	Ē



3,346 7,182 12,453 25,543 (100) (100)

3,000 ests (14-3) (100)

2431 25 350 0,000 50 1,047 (36-6) (14) (13-2)

1,187 57 896 1,000 170 3,123 1,001 (25-4) (25-1)

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Summary
APPENDIX

			e	Part					Part I 1991-66		
Set-dware	Population 1984	Employed population 1986 S	Share of configurations and supplies of supplies of su	Zand sephens is necessaria tokery separa	Even of employees or accella codestry X	Stand Metabolic	Constitution of pagasisten N	Growth of employed population N	Growth of extreme exployment N	Greath of mendetanes engloyeres	Gowth of services employment N
arth Zast	2	я	46	n	8	8	4.9	9 6	- 23	9-6	12-8
ong gas	*	8	N	n	ñ	К	2	10-1	-13.2	16.9	12.7
South West	8	Я	n	2	88	н	20.0	†	-23-4	20.0	3.01
-	5	2		8			**	44.0	****	****	

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Trunk road programme up to

Major trunk road schemes announced by the Ministry of Transport as being included in the road programme up to 1970 or in the 'preparation pool's:

Trunk roeds A1 Eston Socon by-pess

Stibbington to Wensford Bridge

A11 Cringleford by-pees

*The Michaey of Transacon has accounted a programme of truck real improvements due to sent in the sent of a sent 10 per for the the form relation of a programme, and a sent to sure a sent of a sent 10 per form of the other programme, and the sent of the sent

- A12 Lowestoft Bescule Bridge reconstruction Keggreve end Mertleshem by-pess A47 King's Lynn couthern by-pess East Derphem by-pess (Stage I)
 - beet Derehem by-pess (Stege I)

 A45 Needhem Merket-Cleydon by-pess
 Stowmerket relief roed

 Bury St. Edmunds by-pess
 Chesterton Bridge, Cembridge
 - Newmerket by-pess
 A14 Huntingdon end Godmenchester by-pess
 A15 Peterborough Inner relief road

Potentiel trunk road A130/A604 Cembridge western by-pees end

improvements to A130 end A604

Local highway authorities' principal road schemes up to 1970

Local highway authorities' principal road schemes announced as boing included in the road programme up to 1970 or on the 'preparation lief for the 1970e*:

Cambridge A604 Northern access road Four Lamps roundabout to Gonville Place roundabout

Four Lamps bundabout to Gorville
Place roundabout
Wastern relief road
AB03 East Road—Gorville Place—Lanefield

Road—Hyda Park Comer Improvement
Fekenham
A148 Northern by-pass
Great Yampouth

A47 Fullars HII and Burs Bridge
A12 Halfway House to Bridge Road
diversion
New Central Route from Regent Road

to St. George's Pielo New Central Route: Balance of scheme A47 Adla new road from Borough Boundary to Bure Bridge: dualing

Lowestoft
Central Area Proposals : Phases I and II
March
A141 Improvement of High Street

A141 Inpermitted A141 Inner milef roed
North Walsham
A149 By-page

"This selection of actourse has been compiled burn proposed or forward to the Miniary of Prospect by Israil highway rethrolled fictions in Israil highway rethrolled fictions in Israil highway rethrolled proteins of the selection produced proteins and including protein contained proteins and the selection produced proteins and the selection rethrolled proteins and the selection rethrolled proteins and the selection and the selection of the selec

A1024 Inner link roed—Stege I, Barrack Street to St. Giles Gets A1024 Inner link road—Stege II, St. Giles Gote

A1024 Inner link road—Stage II, St. Glies Gete to Finkeligate A47 Foundry Bridge junction improvement A140 Augustins Street/Pitt Street; inner link

road to Magpie Road: duelling A47 Thoma Road: Foundry Bridge to Carrow Road: dualling A1074 Bounday Road/Aylsham Road:

A1074 Boundary Road/Aylsham Road: junction improvement A1074 Hostrisoss Lens/Plumsted Road:

junction improvement
A148 Trouse Relivey Bridge: reconstruction
B1138 Beneck Street—Coveges to Bishopbridge Road: dualling
A1074 Sweat Brier Road/Drayton Road:

problem improvement
Bi139 Riverside: dusting
A140 Ayekham Read—Half Mile Road to
St. Augustine's Gets: duelling
A47 Dareham Read—outer ring road to
St. Banadict's Gatas: duelling
A1028 Precondels—Ber Street to Kine Street:

dualing Stowmerket A1120 Town Centre relief road Whitteey A605 West Ford immersion and Store Lene

extension
Cambridgashire and Isla of By CC
A1101 Wisbach, Canal Road completion
Huminoden and Paterbarough CC

B1040 St. Ivas by-pass East Suffolk CC A45 Trimley and Walton by-pass

East Anglia ports: trade* handled in 1966

		Foreign			Cosstwise		3
fort and commodity group	Imports	Esports	Total	inwerds	Outwards	Total	Total trade
Cing's Lynn					-		
Foodstuffs Sapic Meterials of which wood.	176	146	176 181	1	82	52 9	237 190
umber end cork	104	-	104	-	-	167	104
nireansis Fuels	72	-	72	334		354	51 334
f which petroleum roduots	_		-	334		334	334
Annulectured Goods	63	44	100	2	22	24	133
fotel	271	194	486	337	91	428	894
Wiebech Foodstuffs		14	17			4	23
lasic Meterials if which wood.	33		33	-	-	-	33
amber and eark	32		32	39	= =	30	32 38
f which petroleum roducts	-		-	38	-	38	38
Annulessured Goods	70	17	47	31		44	140
otel	. 79	17	96	30		44	140
Veille oppietutte (Grein)		7				3	- 11
fenufectured Goods Chemical Fartileer)	,		7			-	7
otel		7	16		3	3	16
corwich (1866-07)	48	2	60	-	-	-	50 17
issic Meteriols icel and Coke	11	2	13	81	=	51	17
tenufretured Goods	7		7	-		-	,
Chemical Partillatr)							
0141	86	4	68	96	1	86	154
Irest Yermouth							
including Norwich)	117	49	106	11	3	14	180
sale Materiole	108	60	176	-	- 1	Ann	175
uele	=	1	1	607	-	867	558
Which coal	-	1	1	474	=	474	475
Innafectured Goods	33	63	95	20	-	20	116
otel	288	181	430	697	3	500	1,040
owestoft							

Port end commodity group	Imports	Бироги	Total	Immando	Outwards	Yotal	Total
Falloztowe							
Poodeta*fe	73	85	136	12		19	156
Sesio Meteriele	39	12	61	_		-	51
Fuels of which persolaum	160	2	162	46	-	46	227
of which personality	160	2	182	- 44	-	45	227
Merufestyred Goods	181	173	364	"4	4	12	366
Total	473	251	725	66	10	75	801
lowish							
Foodetsite	174	. 48	223	23	25	48	272
of which certels	135		NA	,		N/A	N/A
unmilled Seals Metarials	139	N/A	N/A	136	-	135	231
Seale Metavisia of which strade	91		10	136	-	136	231
ferfillees and minerals	81	1	51	133	-	121	163
forming .		16	17	1.250	7	1,297	1.313
of which soul	_	16	10	790	-	710	601
servicum products	_			500	: 6	507	907
Manylectured Goods	146	46	191	46	15	100	292
Total	410	116	627	1,484	87	1,561	2,108
Herwish							
Foodstuffs	172	16	100	-	_	-	168
Seals Meterials		8	13	100	_	-	13
Paris	18	1	19	1	-	1	20
Manufectured Goods	241	341	592	-	-	-	662
Total	437	268	502	. 1	-	1	993

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Appendix 21 (partitions)

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ermanent dwellings started and completed 1961-6
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	Total for England and Wales (9)	268,832	278,967	278,665	236.305	347,181	349,480	362,498	2222216
Complished	S Total	8/8/8	10,638	11,434	13,901	14,855	17,716	16,950	505.407
	Preside C)	6,746	7,178	2,440	8,870	10,308	10,882	10,608	63.142
	Publicity Cowned (6)	2,122	3,456	3,394	3,831	4,587	6824	630	32.265
	Col. (3) expressed as percentage of Col. (4)	4-2	0.4	9.0	7	7	**	9.4	Apr. 4-6
	Total for England and Wales (4)	284,678	283,036	330,326	270,000	258,375	34,287	400,573	2301,425
Started	Total Basel	11,988	11,962	12,619	17,196	16,609	15,974	19,187	105,615
	Privately ownted (2)	7,714	6009	2,002	11,961	10,368	10,386	12,702	70.142
	b _	2	2		98	=	*	100	g

Preside control (7)	6,746	7,178
Publich* countd	2,122	3,456
occupa d	4-2	9

E		_	
(8)	2,122	3,456	

Privately ownted (2) 7,714 Pablioty* owned (1)

							1
6,746	7,178	2,440	8,878	0,308	0.882	10,608	3,142

Slum clearance in East Anglia

Total houses demolished or closed 1856-67

	Eset Angle	England and Wales	Percentige
66	1,270	24,273	5-2
156		34,336	5-1
	2,121	44,515	4-7
955	2,323	62,523	4-4
	1,277	67,666	3-9
960	2,417	66,661	412
961	2,118	61,909 62,431	3.6
852	2,197	\$1,445	4-2 3-6 3-5 3-1 3-1 2-8 2-4
163	1,950	51,215	2.1
\$64	1,725	50,555	2.0
165	1,877	65.792	2.4
1965	1,685	71.162	2.4
W07	1,000		
455-47	25,674	716,623	3-8

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	v of basic t	1 01000	1066
	Availabilit		amonition 1066
APPENDIX		3	17

		d	Number of Households	solds		Perc	Percettage of Households	setolds
	Total	With		Without		With exclusive		N S
	house-	hese base neembra	N and Selection of the	E S	Any W.C.	three basic arrentise.	Mor water tap	2.3
	506,410	353,680	88,780	100,180	40,200	22.82	22	
andedelation pr	286,780	196,810	48.710	44,230	2,530	28	11	
	238,790	166,870	83,0%	99,880	27,670	22	22	
	48,270	15,090	15,450	16.110	1,000	82	2.2	

Numbers of houses improved with grants in East Anglia 1956-67

1,162 3.364 8,515

> 3.077 5,601

3.043 8,959

60,561

-69	32	419	638	303	6,491	1,164	9,044
0	6	1,397	1,622	157	1,805	3,044	7,730
1	7	1,183	813	151	1,671	1,232	8,067
12	71	1,391	5:06	188	1,481	3,090	6,917
13	13	1,437	620	161	1,379	3,059	6,706
	0	1.856	438	177	1.458	3.160	6,616

131

156

1,466 3160 1.856 295

1951 1962 1963 1984 824

1955-1960

Discretionary

Private houses

1.287

1.660 205 108 1.022

188 11,437 5,852 1.670 17,171

APPENDIX

1950 23 1.181

1955

26	Number and percentage of students attending grant-aided establishments of further education in East Anglia* November 1966
-----------	---

		ber 19		LAngi	ıa"	
	Studer	ns eged 16–17	Studen	rts aged 18-20	Students coed 21	Studente
	Number	Persentege†	Number	Persenteget	end over	1901
Full-time courses Men Women Total	1,781 1,962 3,743	6-28 (3-92) 5-23 (4-60) 6-74 (4-25)	744 501 1,345	1 89 (2 80) 1 63 (1 83) 1 76 (2 37)	219 118 338	2,744 2,662 5,426
Sendwich courses Men Women	49	0-13 (0-10) (0-01)	94 6	0-48 (0-84) 0-01 (0-04)	66	205

Total 212 Part-time day ocurses Men 6,566 1,652 8,218 19 - 74 (20 - 84) 4 - 96 (6 - 18) 12 - 60 (13 - 67) 0,884 656 6,640 16-17 (18-47) 1-78 (2-22) 8-59 (10-43) 2,817 1,642 4,360 18,467 3,760 19,217 Women Total Evening only courses Men 1,067 2,054 1,600 6,898 7,416 13,414 8,656 11,411 18,977 3-17 (4-54) 5-52 (7-31) 4-78 (5-88) 3 - 80 (6 - 80) 5 - 26 (6 - 88) 4 - 61 (6 - 88) Women Total Evening inediscos Men 3,018 3,374 0,382 6-85 (10-10) 10-71 (10-01) 9-80 (10-05) 1,746 2,238 3,914 4 · 42 (4 · 86) 6 · 06 (6 · 88) 6 · 22 (6 · 26) 10,877 25,500 16,361 31,669 48,010 Women Total

43,323 40,518 92,642

20,080 34,686 54,686

All courses 26-62 (32-66) 14-73 (16-86) 20-31 (24-40) Men 12,568 8,964 21,519 37 - 27 (38 - 49) 28 - 43 (28 - 69) 33 - 60 (33 - 52) 10,057 Total *East-oling students under 16 years in evening institute

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Glossary

Activity rate

The proportion of the total number in any group of people of a perticular ege or eax who work or are evallable for work. In this Study the rates used relate to the number of employees (employed end registered unemployed) as a proportion of the home population seed 15 and over.

Besic civilien population Private household population minus the dependents of servicemen.

Civilian population
The population resident in an erea minus armed

forces stationed in that eree.

Economically active population (census of

population)
Those people eged 15 and over who were in
employment during the week before the cansus,
and those who, though intending to get work.

were out of employment at the time of the census.

Employees in employment
Mid-yeer estimates of civilian employees, derived

from National Insurence cards, less the registered wholly unemployed.

Employee totals Employees in employment plus the unemployed.

Home population
Total population (including armed forces) resident
in an area.

IDC Industrial Davelopment Certificate
The certificate which the Board of Trade Issues
under the Town and Country Planning Act, in
respect of eultable industrial development (perarelly over 3,000 as, ft.), certifying that the

development in quastion is in eccordance with the proper distribution of industry. ISS industriel Selection Scheme The scheme operated by the Greater London Council in the attempt to move those Londoners who are in hissian peed in lobs and housing in

Labour reserve.
Those people registered as unemployed minus a those unemployed for less then one month (mainly those charging jobs), & those sgot 60 and over, or those oged 68 and over who ere registered for clerical work, of the disabled, e those with a very none employment record.

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the New and expending towns.

Labour reserve rete

The labour reserve expressed as a percentage of
the employee total.

Land use/transportation study A comprehensive study of all the demends for

A comprehensive study or all the demends for movement in a locality (including surveys of land uses, journey purposes and their origins and destinations) to provide a basis for co-ordinated land use and transport planning.

London overspill Not outward migration from the Greater London

Council (GLC) eres. Planned London overspill refers to people noministed by the GLC who move for the second of the second of the second overspill refers to people who move out under their own errangements.

Lower quertile
That point in a frequency distribution which has

one-querter of the values below it and threequerters of the values above.

Median

The value of the middle item of a frequency distribution.

Motorweys Motorweys are roads reserved for motor vehicles

end built to higher engineering standards than ellpurpose roads: all junctions are on at less two levels, and there are continuous hard shoulders where vehicles can stop in an emergency.

Births minus deaths.

Net migretion Immigrants minus emigrants.

Plenned expension schemes
Town expensions under the New Towns Act and
the Town Development Act, designed to cate
primerily (but not entirely) for planned overspill
from Lender.

Population of working age Home population aged 15-64 (males) and 15-59 (females).

Primary routes
All trunk routes and the more important principal

roeds.

EAST ANGLIA A STUDY

A first report of the East Anglia Economic Planning Council

London: Her Majesty's Stationery Office 1968
Published for the Department of Economic Affairs



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Foreword

This Study seeks to draw estention to the features of liest Angilian oconomic life, both thresent and future, which but if for cauchal consideration by usell. The Study is in two pers. The factural appraisal is largely based on information provided and analysed by the Economic Planning Beeck Mutch of It has been worked out on an Elect Angilian Regional beels for the first time, and we are indicabled to the Members of the Boort whin hower.

given so much time and thought to this work. The first pert of the Study sots out expansibly our preliminary views on the longer term strategy for the region, and in it we have much ecommendations for modifications of central government policy which we believe as necessary for our continued prosperity and growth. Our region is likely to see the biggest and most rapid changes of eny in the country, and it will need much thought and cereful pleaning if the unique cheerstee of the region and its contribution to the necional life ere not to be affected eleverably.

Our views are intended to be the basis of e

Our views had said organisetions in the region, which was been all organisetions in the region, which was been will enable us to refine our control of the consumeration of the region of the decision and the region of the theorem and the region of the through the region of the regio

Kenneth Kelth, Cheirmen Eest Anglie Economic Plenning Council

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